

EXECUTIVE OFFICER'S REPORT

1/2 AUGUST 2019

**California Regional Water Quality Control Board
Central Valley Region**

Patrick Pulupa, Executive Officer



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SUCCESS STORIES

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

Under the Irrigated Lands Regulatory Program, a management plan is triggered when water samples from a monitoring site are tested and a constituent has two or more exceedances of the appropriate water quality limit within a 3-year period. This requires development of a management plan by the Coalition and implementation of improved management practices by member growers. Implementation is deemed successful when the Coalition demonstrates: (1) at least three years of compliance with receiving water limitations; (2) documentation of third-party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

SACRAMENTO VALLEY WATER QUALITY COALITION

The Executive Officer approved completion of two surface water management plans for the Sacramento Valley Water Quality Coalition (Coalition):

1. Diuron in Willow Slough Bypass (5/29/19)
2. Ceriodaphnia dubia in Willow Slough Bypass (5/29/19)

The implemented management plans successfully eliminated water quality problems caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of new practices implemented by growers include: monitoring wind conditions and avoiding surface water during pesticide applications; adopting efficient irrigation methods; use of shorter irrigation runs to manage flows; lengthen time between pesticide applications and irrigation events; use of amendments, deep ripping or aeration; and use of vegetated ditches and field borders. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 14 June 2019, the Executive Officer approved completion of 3 surface water management plans for the Westside San Joaquin River Watershed Coalition, including sediment toxicity, diuron, and methyl parathion. Management plan implementation addressed water quality exceedances through member meetings and targeted outreach to individual growers, providing general and site-specific management practice guidance to protect water quality. Examples of new practices implemented by growers include use of tailwater return and sedimentation ponds, polyacrylamide polymer flocculant, and drip irrigation. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

SITE CLEANUPS

BEALE AIR FORCE BASE, YUBA COUNTY

The Second Five-Year Review Report (Report) for Beale Air Force Base (AFB) was finalized by the U.S. Air Force in July 2018 and the associated Corrective Action Report was completed in March 2019. The second Five-Year Review covers the period from January 2011 through June 2016. The Beale AFB Environmental Restoration Program (ERP) includes sites managed according to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), and Leaking Underground Fuel Tank (LUFT) program. A total of sixteen ERP sites were evaluated for remedy protectiveness by reviewing Administrative Record documents and analytical data, conducting personal interviews, performing site inspections, and assessing risk following U.S. EPA Comprehensive Five-Year Review Guidance. The Report determined that the remedies implemented to clean up ERP sites at Beale AFB have been, and will continue to be, protective of human health and the environment.

SIERRA ROCK LLC., PLACERVILLE, EL DORADO COUNTY

A Time Schedule Order (R5-2019-1002) was issued to Sierra Rock. As part of the remedy at the former Diamond Lime Plant in El Dorado County, high pH material is being transported to Sierra Rock, where it will be processed and sold as an agricultural amendment. The Order was issued to assure that the high pH material is indeed processed and sold, and not indefinitely stockpiled.

ONSTOTT DUSTERS, 180 2ND STREET, YUBA CITY, SUTTER COUNTY

The aerial pesticide applicator, Onstott Dusters, has operated on land leased from the Sutter County Airport since 1952. In the mid-1980's Onstott Dusters was asked to sample soil beneath its washpad to determine if remediation of past spills would be required. In 2019, the current owner fulfilled that request. Although the soil results show that that organochlorine compounds are present in the shallow samples, only dieldrin exceeded the health-based screening level, and dieldrin attenuated rapidly with depth. Ammonium was also elevated in one soil boring but is not expected to degrade groundwater because it is beneath the washpad cap, and groundwater is least 15 feet below ground surface. Therefore, the site is not expected to be a threat to human health or the environment, and on 24 May 2019 was issued a No Further Investigation Needed letter.

NUTRIEN MODESTO WEST, 541 CROWS LANDING ROAD, MODESTO, STANISLAUS COUNTY

This facility has been operated by numerous agricultural chemical companies since the mid-1960s, and is now operated by Nutrien, formerly known as Crop Production Services (CPS). In 2004, Crop Production Services conducted a soil assessment for oil products, which were not found at concentrations of concern. However, CPS had not sampled for agricultural chemicals, and therefore did not receive environmental closure. In 2016, the agricultural related chemical, 1,2,3-trichloropropane (1,2,3-TCP), was detected in a nearby municipal

supply well, and CPS obtained soil and groundwater samples which were analyzed for 1,2,3-TCP and other agricultural chemicals. Although agricultural chemicals were not found in soil samples, 1,2,3-TCP was detected in one of two grab groundwater samples. However, because 1,2,3-TCP was also found in multiple supply wells upgradient of the site at similar concentrations, it was concluded that the site was not a source of 1,2,3-TCP, and on 13 March 2019 received a No Further Investigation Needed letter.

PG&E KERN POWER PLANT, BAKERSFIELD, KERN COUNTY

Soil degraded by metals, volatile organic compounds, and petroleum hydrocarbons were assessed and PG&E completed remedial actions to satisfy criteria for future industrial use of this former power plant property. Approximately 5,260 tons of impacted soils were excavated from nineteen locations on the site and disposed of at a permitted facility. Groundwater was not impacted. A land use covenant restricting the Site to commercial/industrial development was recorded with the Kern County Registrar-Recorder. The site remains in use by PG&E for purposes other than power production. A Public Notice and Fact Sheet were distributed to nearby property owners and interested parties and posted on the Central Valley Water Board webpage. No comments were received regarding the proposed case closure. A closure letter was issued on 3 June 2019.

UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

REDDING

PRIVATE RESIDENCE, CASE 040306, BUTTE COUNTY

A flight training school previously operated the Site which is currently occupied by a residence and barn situated on a 40-acre rice farm. In July 2006, four shallow soil borings were installed to characterize the potential groundwater impacts from nearby underground storage tanks (USTs). The borings detected minor petroleum impacts. In March 2015, the three gasoline USTs were abandoned in-place under Butte County Division of Environmental Health oversight. Central Valley Water Board staff opened a case in December 2016 and subsequently collected a water sample from the domestic well. No petroleum constituents were detected. Staff closed the case in May 2019 after determining that the Site generally meets the Low-Threat Closure Policy.

BORDIN RANCH, CASE 040148, BUTTE COUNTY

The Site is a commercial apiary and nut orchard. In December 1998, two USTs were removed from the Site under Butte County Division of Environmental Health oversight. Elevated levels of petroleum constituents were detected in soil adjacent to one of the USTs. In April 2000, petroleum impacted soil was excavated and stockpiled onsite. Approximately 80 cubic yards of soil containing an estimated 5,900 pounds of gasoline were removed during the excavation. sample collected from the soil stockpile in 2000 and 2001 indicated residual petroleum concentrations. The Central Valley Water Board became the lead agency for the case in June 2014. At that time the property owner indicated that the

stockpiled soil remained onsite. Staff's review of available data for the soil stockpile indicates that shortly after excavation activities, concentrations were slightly above or less than U.S. Environmental Protection Agency Regional Screening Levels for residential soils. Residual petroleum compound concentrations are expected to have continued to decline between 2001 and 2019; therefore, the stockpiled soil is not expected to pose a health or water quality risk. Staff requested that the property owner sample the Site's domestic well; no petroleum constituents were detected in a water sample. Staff closed the case in June 2019 after determining that the Site generally meets the Low-Threat Closure Policy.

UNDERGROUND STORAGE TANK - ENFORCEMENT

ATWALS, CASE 040280, BUTTE COUNTY

In May 2019, the Central Valley Water Board issued amended Cleanup and Abatement Order (CAO) R5-2017-0707-A01 to include the new property owner for an unauthorized release of petroleum hydrocarbons which was discovered during an environmental site assessment. The CAO includes a timeline for fully delineating the lateral and vertical extent of contamination associated with past fuel dispensing operations in all impacted media (i.e., soil, soil gas, groundwater).

UNION PACIFIC RAILROAD – NORTH DUNSMUIR RAILYARD, CASE SLT5R1087, SISKIYOU COUNTY

The site has operated as a fueling facility since the late 1800s. Bunker C oil was stored in a 2-million-gallon aboveground storage tank (AST) until the 1950s when it was replaced with a 200,000-gallon diesel AST. Bunker C was heated and then delivered throughout the site via underground piping, which was made of wood in some areas. Historic operations resulted in the release of unknown quantities of Bunker C and diesel fuel which have migrated to the Upper Sacramento River located immediately east of the site. Attempts to control the discharge of oil to the river have included over 800 lineal feet of retaining wall installed in the 1920s, a coffer wall installed below the retaining wall in the 1950s, and a series of grout tubes along the retaining wall walkway that has been used to remove oil since the 1970s. In addition, multiple groundwater extraction and treatment systems (GWETS) operated between the 1970s and 2016. None of these remedial systems have been able to effectively collect oil, stop the discharge, or remove source material in enough quantities to prevent impacts to the river. In response to Union Pacific Railroad Company (UPRR) shutting down the GWETS in 2016 and subsequently proposing limited-scope remedies, Central Valley Water Board staff requested a feasibility study to evaluate remedies to stop the discharge. Subsequently, citizen complaints to the California Department of Fish and Wildlife (CDFW) and Office of Spill Prevention and Response (OSPR) triggered an emergency response in September 2018 which is still underway. UPRR responded by placing absorbents on the walkway and placing 600 feet of boom in the river to collect and remove oil. In June 2019, the Central Valley Water Board issued Cleanup and Abatement Order (CAO) R5-2019-0713 requiring UPRR to conduct a comprehensive investigation, conduct feasibility studies for cleanup of the Bunker C and diesel releases, and implement of remedies at the site. The CAO also requires UPRR to implement interim control measures to address non-aqueous phase liquid discharging to the

river while a comprehensive remedy is developed and implemented. The investigation is scheduled to begin in 2019 and the initial phase of the remedy is anticipated to begin in 2021.

STAFF RECOGNITION

SUPERIOR ACCOMPLISHMENT AWARDS

At the June 6/7, 2019 Board Meeting, Executive Officer Patrick Pulupa presented Superior Accomplishment Awards to the following staff:

Employee: Jason Schroeder
Unit: Groundwater Unit,
Location: Redding Office
Title: Engineering Geologist
Supervisor: Kate Burger

Jason Schroeder is an Engineering Geologist in the Redding office's Groundwater Unit and is being recognized for his outstanding work performance on Underground Storage Tank and Site Cleanup Program cases. Jason joined the Central Valley Water Board two years ago, bringing with him more than nine years of experience working as an environmental consultant. Since joining the Groundwater Unit, Jason has applied his excellent technical and communication skills with a tenacity that has resulted in renewed movement on several stalled and challenging cases.

The Allied Washoe petroleum release case was one of Jason's initial focus areas after joining the Central Valley Water Board. The unaddressed impacts from this site have affected Quincy's sewer system and required shutting down a municipal supply well. After his efforts to work with the Discharger to implement the Cleanup and Abatement Order requirements did not produce results, he pressed forward with the enforcement process and presented an Administrative Civil Liability Order at the February Board meeting. The Board adopted the ACLO with a penalty in excess of \$660,000. Jason is continuing to work with the Discharger on the necessary cleanup activities.

A team player and valued colleague, Jason is always willing to pitch in when needed. Over the past year, he has been part of Redding emergency response team and worked on the Redding office's Carr Fire response by assessing residential properties and conducting surface water sampling. In addition, Jason was integral to the initial response to 1,2,3-trichloropropane contamination detected in a school drinking water well in Gridley. His innovative approach to gathering information on this project is now being applied to sites elsewhere in the Central Valley Region. Jason's management team is very pleased to nominate him for this much-deserved Superior Accomplishment Award.

Employee: Denise Soria
Unit: Non-25 Waste Discharge Requirements Unit,
Location: Fresno Office
Title: Water Resources Control Engineer
Supervisor: Alex Mushegan

Denise Soria is receiving this award because she is a valuable member of our Non-15 Waste Discharge Requirements permit writing unit in the Fresno office. Denise has a willingness to take on the workload of new projects with a positive attitude and her experience allows her to be efficient and prioritize issues encountered on a project.

Denise has demonstrated her skill set for the entire permitting process from receipt and review of a permit application, conducting pre-permit site inspections to visualize all aspects of the discharge proposed by the discharger, identifying issues and getting them resolved early on in the process, drafting a permit for discharger and public review and comment, and presenting the permit for Board consideration.

Specifically, tasks in addition to the permitting process that Denise has completed recently include:

- Handling a complicated project of two facilities combining their discharges to one pond. Denise inspected the facilities, drafted a monitoring and reporting program, and a 13260 letter for the submittal of a Report of Waste Discharge,
- prepared a Notice of Applicability for a small domestic wastewater treatment facility to be regulated under the State- Wide General Waste Discharge Requirements for these types of facilities,
- Responded to multiple inquiries from discharges about annual fee invoices, requirements for Title 22 Engineering Reports, and other technical questions, and
- Drafted a memo and letter to a discharger after reviewing 14 technical reports for their discharge. She also assisted the disadvantaged community with questions about addressing their Cease and Desist Order.
- Denise is a reliable and professional member in our Fresno office and is very deserving of this award.

Employee: Steve Thompson,
Unit: Administration
Location: Sacramento Office
Title: Personnel Liaison
Supervisor: Brett Braidman

Steve Thompson began working at the Central Valley Water Board's Rancho Cordova office in 2010 and serves as the Region's Personnel Liaison. Steve plays an important role for our Region and acts as the liaison between our employees and the State Board's HR Branch,

ensuring smooth communication and prompt resolution of all human resources and payroll-related functions. Steve coordinates the process of reviewing and preparing various personnel documents including but not limited to the development of duty statements, job announcements, and Requests for Personnel Action (RPAs).

Steve supports approximately 140 positions in the Rancho Cordova office and provides consistent and prompt responses to a wide variety of HR questions involving payroll, benefits, new hire paperwork, and the State's hiring process. Steve works diligently to ensure successful completion of all tasks and provides outstanding responsiveness and promptness given the volume of HR related transactions that cross his desk. On average Steve processes 250 RPAs per fiscal year, while constantly providing consistent high-quality direction and beneficial wisdom with a positive and professional attitude. Steve was also an integral part of State Board's recent HR Consolidation Project, which supported our agency's efforts to achieve consistency and compliance with all applicable HR laws, rules, and regulations.

Steve models the highest level of customer service, work ethic, and calm and steady demeanor and is a tremendous asset to our Region as a Personnel Liaison. For these reasons, Steve is deserving of this award.

Employee: Alisha Wenzel
Unit: Surface Water Ambient Monitoring Program (SWAMP)
Location: Sacramento Office
Title: Engineering Geologist
Supervisor: Anne LittleJohn

Alisha Wenzel is being recognized for her accomplishments in organizing and implementing critical sampling in the aftermath of the Camp Fire. She is also being recognized for her role in the development of E.coli monitoring and a source tracking plan for the Lower American River.

In a limited period of time Alisha determined the funding and developed sampling protocols for the watershed affected by the Camp Fire. Alisha also organized the sampling crews and ensured that all the monitoring was conducted per required protocols. Her key coordinating role enabled collection of high-quality data for constituents potentially affecting the watershed that our agency, other government agencies, and the general public has relied upon to better understand the impacts of the fire. One specific example of where Alisha's determination kept the program on track is where sampling filters began plugging up with suspended material. Alisha determined that the only way to get the samples filtered was to drive them to a laboratory many miles away in the Bay Area. She immediately boarded the trusty Chevy pickup that SWAMP staff use and drove the samples to the Bay Area for filtration. Without this filtration step, data quality would have been impaired.

Alisha is also filling a key technical role in the development of E.coli sampling and a source tracking workplan for the Lower American River. She has helped to organize stakeholder meetings and provided important technical feedback on highly technical E.coli source tracking techniques in a complex watershed with numerous potential sources. She also

worked with staff to collect weekly E.coli samples in the Lower American River over the last year. This data set is being used as a key component to inform the source tracking workplan.

Alisha is conscientious, hardworking, and has a positive and cheerful nature. She is well deserving of this award.

EMPLOYEE RECOGNITION AWARDS MAY THROUGH JUNE 2019

Employee: Alejandra Lopez
Unit: Oil Field Unit 1 (Land Discharge)
Location: Fresno Office
Title: Engineering Geologist
Supervisor: Ron Holcomb

Alejandra is receiving this award because she has worked tirelessly and diligently as part of a team on a cease and desist order (CDO) for a complex discharge for the past few months, in addition to other duties. May was spent getting ready for the Board meeting at which the CDO would be considered for adoption. While preparing the documents required for the agenda package, Alejandra reviewed and responded to voluminous public comments that were submitted by the discharger and environmental activist groups. The discharger alone had nearly 40 comments and submitted a 30-page rebuttal to Board staff's response to comments. During this time, Alejandra also assisted in the preparation of the presentation that would be performed at the hearing. Her work involved compiling and interpreting data for a complex hydrogeological system and preparing slides, which were used during the presentation.

Alejandra accomplishes her tasks skillfully and in a timely manner. She consistently maintains a positive and professional demeanor and is a good team member. Alejandra's efforts in the performance of her assigned duties make her a valuable member of our organization.

Employee: Doug Wachtell
Unit: Oil Field Unit 1 (Land Discharge)
Location: Fresno Office
Title: Engineering Geologist
Supervisor: Ron Holcomb

Doug is receiving this award because she has worked tirelessly and diligently as part of a team on a cease and desist order (CDO) for a complex discharge for the past few months, in addition to other duties. May was spent getting ready for the Board meeting at which the CDO would be considered for adoption. Doug provided key analysis and input on preparing Board staff's response to voluminous public comments that were submitted by the discharger and environmental activist groups. The discharger alone had nearly 40 comments and submitted a 30-page rebuttal to Board staff's response to comments. During this time, Doug also assisted in the preparation of the presentation that would be performed at the hearing. His work involved compiling and interpreting data for a complex

hydrogeological system, researching groundwater data sources and information, and preparing slides which were used during the presentation. Additionally, he prepared a staff letter and memorandum concurring with a steamflood and cyclic steam project in the Kern Front Oil Field.

Doug accomplishes his tasks skillfully and in a timely manner. He consistently maintains a positive and professional demeanor, and readily assists other staff to accomplish the goals of the Oil Field Program. Doug's efforts in the performance of his assigned duties make him a valuable member of our organization.

Employee: Roberto Moreno
Unit: SWRCB, Division of Information Technology, Remote Services Unit
Location: Sacramento Office
Title: Information Technology Associate
Supervisor: Bob Chow

Roberto is receiving this award because he works diligently to assist Fresno staff in addressing a variety of issues related to the Fresno office's individual computers and accessories, computer network, audio and video conferencing equipment, office telephone and alarm systems, and general day to day information and technology work. Roberto's assistance is indispensable when it comes to setting up the telecommunication and audio-video systems for board meetings and workshops held in Fresno and Bakersfield. In addition to his work with the Central Valley Water Board's Fresno office, he also responds to the IT needs for the Division of Drinking Water's Fresno and Bakersfield Offices, and has been to other parts of the state to support other regions and Drinking Water Offices.

Roberto performs his duties quickly and accurately and with humility, courtesy, and professionalism that is well received by those he works with and those he works for. Roberto is a valuable asset to the State Board and the Region.

Employee: Crystal Hanson
Unit: Administration
Location: Redding Office
Title: Seasonal Aid
Supervisor: Clint Snyder

Crystal Hanson is receiving the May 2019 employee recognition award for her excellent customer service, willingness to leverage her expertise to assist staff and chip in to help regardless of the task. During the last month Crystal helped streamline multiple processes within the Admin unit including the development of a unit phone tree used as a tool for Admin staff to direct calls more efficiently. Recently four new printers were installed in the Redding office and Crystal provided clear and unprompted communication and guidance to staff ensuring a smooth transition to the new equipment.

Crystal has become the office "go to" person that staff rely on for inquiries and support with using Microsoft Excel and is always very patient and engaged when asked a question or given an opportunity to assist.

During the month of June Crystal processed Public Records Requests when the Public Records Coordinator was out on vacation. This ensured that members of the public received ideal customer service and deadlines were met.

Crystal is always willing to learn and help with anything that is needed even if it something outside of her wheelhouse. She comes to work every day with a positive attitude and the willingness to help others. Thank you, Crystal, for what you do each and every day.

Employee: Debbie Behnke
Unit: Storm Water/Water Quality Certification/Nonpoint Source
Location: Redding Office
Title: Seasonal Clerk
Supervisor: Lynn Coster

Debbie Behnke is a Seasonal Clerk in the Redding office and is being recognized for her outstanding work performance. Debbie joined the Central Valley Water Board in May 2017 and has worked closely with the Storm Water / Water Quality Certification / Nonpoint Source Unit.

Debbie does an excellent job at juggling multiple tasks and various demands of her time. Her work is well-organized and accurate. She is extremely efficient and dependable and gives 100% to the job.

Quick to learn, Debbie is always willing to take on new challenges and tasks. Over the past year, she has quickly gained knowledge of the program. To ensure that program performance measures are being met, she independently created a tracking spreadsheet for Water Quality Certification applications and permits that she maintains. Among many other tasks, she has learned how to update databases, draft CEQA comment letters, review Water Quality Certification applications for completeness, and draft correspondence and permits relative to these applications. Her knowledge is quite impressive, despite not having a science background.

Debbie's contributions are an asset to the unit and Central Valley Water Board. Her positive attitude and willingness to help are much appreciated, and it is a pleasure to recognize Debbie for her accomplishments.

Employee: Ben Lehmann
Unit: UST Unit 2
Location: Sacramento Office
Title: Engineering Geologist
Supervisor: Chris Flower

Ben Lehmann is an engineering geologist in the Underground Storage Tanks (UST) section and has been with the Central Valley Regional Water Quality Control Board (Central Valley Water Board) in this capacity for approximately 2 years.

Ben is being recognized for his work ethic and consistently high work quality. Ben has provided oversight of several UST Sites with technically and politically complex challenges and facilitated their progression toward regulatory closure. In addition to managing his own workload, Ben has for the past 6 months stepped up to aid the UST section with workload from staff on temporary leave. Ben will also be taking on an increased caseload from Solano County Environmental Health as they depart the Local Oversight Program.

Ben's performance and attitude are much appreciated, alleviating stress and worry of UST Section management. For these and other actions Ben is being recognized as a valued asset to the UST team and the Central Valley Region.

Employee: Holly Grover (Environmental Scientist),
Taran Sahota (Environmental Scientist),
Jay Simi (Water Resources Control Engineer), and
Lisa Wilson (Engineering Geologist)

Unit: Nonpoint Source Planning and Assessment Unit

Location: Sacramento Office

Title: Various

Supervisor: Jennifer LaBay

Holly, Taran, Jay, and Lisa are being recognized for their outstanding work on the 2018 Integrated Report. The 2018 Integrated Report is an off-cycle priority focused assessment resulting in recommended updates to the 303(d) List of Impaired Waters. The team came together and in a short time frame assessed several hundred priority waterbody/pollutant combinations, developed decisions based on those assessments, and drafted and released a staff report for the upcoming June Board meeting. Jay and Holly provided guidance to the Unit's newer staff, Taran and Lisa, who had not previously been through an Integrated Report cycle. Taran and Lisa both quickly picked up the work based on guidance from the rest of the team.

As an off-cycle Region, the team had limited resources for the preparation of 2018 assessments and as issues arose. The team was able to come together, plan for the cycle, and trouble-shoot many of the issues to create a path forward.

Holly, Taran, Jay, and Lisa's fine work and excellent planning resulted in several delistings and category updates on the 303(d) List. For this and so much more, this team is deserving of the Employee of the Month Award.

Employee: Charles Cardenas
Unit: Confined Animals
Location: Sacramento Office
Title: Engineering Geologist
Supervisor: Charlene Herbst

Charles Cardenas is an Engineering Geologist working in the Central Valley Water Board's Sacramento office, as part of the Confined Animal Facilities Unit. Since joining the Unit in June 2018, Charles has become a valuable asset to the group. In addition to his excellent

attitude and legendary GIS skills, Charles has shown himself to be a quick learner, grasping the nuances of the Dairy General Order as well as the new Bovine and Poultry General Orders. He did a good job investigating numerous illegal discharges during the past wet winter, and his willingness to go out in the field with little notice to investigate such events is much appreciated. Recently, he used his GIS skills to spearhead the identification of areas where the depth to groundwater is likely less than 10 feet, and then worked with other staff to issue 71 13267 Orders to Merced County dairies requiring the collection of information to determine if their wastewater ponds intersect underlying groundwater. The dairies needed to be identified and the Orders issued in a relatively short time in order to meet management commitments, and Charles beat the deadline by five days! Charles' enthusiasm, problem-solving skills, and willingness to take on extra assignments are much appreciated and make him very deserving of this award.

ENFORCEMENT

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action. This section of the Executive Offer's Report (EO Report) is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of *all* enforcement actions issued.

ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDO) ; 13267 Investigative Orders; Expedited Payment Letter (EPL), and Administrative Civil Liability (ACL) Orders and Complaints that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

**ENFORCEMENT TABLE 1 – CENTRAL VALLEY ENFORCEMENT ORDERS
(16 APRIL 2019 THROUGH 30 JUNE 2019)**

Action Date	Agency	County	Notes
04/19/19	Rooco Rents Landscape Supplies	Sacramento	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

Action Date	Agency	County	Notes
04/19/19	Universal Service Recycling Inc	Sacramento	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
04/23/19	Alturas City	Modoc	ACLO R5-2019-0501 issued in amount of \$15,000 which represents the sum of Mandatory Minimum Penalty (MMPs) for effluent limitation violations which occurred at the Facility.
04/23/19	Mt Shasta City	Siskiyou	ACLO R5-2019-0503 issued in amount of \$6,000 which represents the sum of MMPs for effluent limitation violations which occurred at the Facility.
04/23/19	Paradise ID	Butte	ACLO R5-2019-0560 issued in amount of \$18,000 which represents the sum of MMPs for effluent limitation violations which occurred at the Facility.
04/26/19	Old Castle Precast	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
04/26/19	Pick N Pull Auto Dismantlers Stockton LLC	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
04/26/19	Contra Costa Water District	Contra Costa	EPL R5-2019-0508 issued in amount of \$24,000 which represent the sum of MMPs for effluent limitation violations that occurred at the Facility.
05/03/19	Central California Traction Co	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several

Action Date	Agency	County	Notes
			reporting years in accordance with the Industrial General Permit requirements.
05/03/19	Contract Coatings Corp Arlen	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/10/19	Jensen Precast	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/10/19	ReConserve of California Stockton Inc	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/17/19	Schuff Steel	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/24/19	Carry Transit	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/24/19	Metropolitan Stevedore Co	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/31/19	Winemucca Trading Company Limited	Shasta	13267 Order issued for the Discharger to request technical reports to ensure compliance the CAO R5-2004-0717.

Action Date	Agency	County	Notes
05/31/19	CBC Steel Buildings LLC	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/31/19	Crowne Cold Storage	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
05/31/19	Industrial Solution Service	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/04/19	Joshua Teska and Claire Warner	Lake	13267 Order issued as result of unauthorized discharge. The Order required the Discharger to submit workplan for site restoration and disturbed area stabilization plan, site management workplan.
06/05/19	Conco	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/05/19	WINTERS AGGREGATE	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/06/19	Original Sixteen to One Mine, Inc.	Sierra	ACLO R5-2019-0506 adopted by the Board, which replaced ACLC R5-2019-0042, in the amount of \$12,000 which represent the sum of MMPs for effluent limitation violations that occurred at the Facility from 1 January 2017 to 31 December 2018.

Action Date	Agency	County	Notes
06/07/19	Valley Water Management Company	Kern	CDO R5-2019-0045 issued because the groundwater in the plume exceed the water quality objective and the plume has migrated approximately 2 miles northeast of the Facility's disposal ponds.
06/11/19	Turlock City	Stanislaus	ACL R5-2019-0503 issued in amount of \$3,000 which represents the sum of MMPs for effluent limitation violations that occurred at the Facility.
06/11/19	UPRR Dunsmuir Railyard	Siskiyou	CAO R5-2019-0713 issued because the Discharger has caused or permitted waste to be deposited where it could potentially be discharged to waters of the State.
06/14/19	A Concrete Supply	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/14/19	Tremont Group Inc	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/21/19	City of Dixon	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/21/19	Syar Concrete LLC	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

Action Date	Agency	County	Notes
06/21/19	Calaveras Cnty Water District	Calaveras	ACLO R5-2019-0521 issued, which replaced ACLC R5-2012-0521, in the amount of \$48,000 which represent the sum of MMPs for effluent limitation violations which occurred at the Facility.
06/28/19	Baslite Concrete Products LLC	Solano	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
06/28/19	Foster Dairy Farms DBA Crystal Creamery	Stanislaus	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

ENFORCEMENT UPDATE

Enforcement Table 2 included below, summarizes the enforcement actions issued in all the Regions for period between 16 April 2019 through 30 June 2019. From a statewide perspective, the Central Valley Region is responsible for 30% of the enforcement actions tracked in CIWQS during this period including 90% of all 13267 Orders, 18% of all ACLs, 67% of all CAOs, 50% of all CDOs, and 56% of all NOV's.

ENFORCEMENT TABLE 2 – STATEWIDE ENFORCEMENT ACTIONS IN CIWQS
(16 APRIL 2019 THROUGH 30 JUNE 2019)

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	0	0	1	0	0	0	0	0	0	0	1
2	0	0	13	0	0	3	4	0	0	0	0	20
3	1	0	9	0	0	0	7	0	1	1	0	19
4	0	63	3	0	0	5	39	9	0	2	3	124
5F	1	0	0	0	1	0	11	0	0	0	0	13
5R	2	0	3	2	0	0	22	0	1	1	0	31
5S	23	8	3	0	0	1	50	0	1	0	4	90
Total R5	26	8	6	2	1	1	83	0	2	1	4	134
6T	0	0	0	0	0	0	0	0	3	0	0	3
6V	0	0	0	0	0	0	1	0	1	0	1	3
7	1	0	0	0	1	2	12	0	0	0	0	16
8	0	22	1	0	0	0	2	0	55	0	12	92
9	1	0	2	0	0	0	1	0	35	0	0	39
Total	29	93	34	3	2	11	149	9	97	4	20	451

ENFORCEMENT ACTIONS:

Enforcement Actions and Abbreviations:

- Verbal Communication (VER)
- Staff Enforcement Letter (SEL)
- Notice of Violation (NOV)
- Notice of Non-Compliance (NNC)
- Water Code Section 13267 Investigation Order (13267)
- Time Schedule Order (TSO)
- Cleanup and Abatement Order (CAO)
- Expedited Payment Letter (EPL)
- Administrative Civil Liability (ACL)
- Notice to Comply (NTC)

In addition to the above, the following enforcement actions were recorded in GeoTracker and not in CIWQS:

ENFORCEMENT TABLE 3 – CENTRAL VALLEY ENFORCEMENT ACTIONS IN GEOTRACKER (16 APRIL 2019 THROUGH 30 JUNE 2019)

Office	13267	TSO	CDO	CAO	NOV	VER	SEL	Total
5F	1	0	1	0	3	1	1	7
5R	1	0	0	1	0	3	2	7
5S	0	1	0	1	4	9	1	16
Total R5	2	1	1	2	7	13	4	30

Finally, the Regional Board's Irrigated Lands Regulatory Program (ILRP) does not upload enforcement action data to the CIWQS or GeoTracker databases. A summary of those enforcement actions is included in Table 4, below.

ENFORCEMENT TABLE 4 – CENTRAL VALLEY ILRP ENFORCEMENT ACTIONS
(16 APRIL 2019 THROUGH 30 JUNE 2019)

Office	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	Total
Fresno	78	7	85
Sacramento	393	36	429
Total	471	43	514

ENFORCEMENT TABLES 5a.-5f.– CENTRAL VALLEY PERFORMANCE MEASUREMENT SUMMARY FROM 1 JULY 2018 THROUGH 30 JUNE 2019

NPDES Wastewater – Table 5a.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
Major Individual Permits Issued, Revised, and Renewed	8	8	100%	n/a	n/a	
Major Individual Facilities Inspected	24	27	113%	n/a	28	Two major facility inspections are listed under the <i>General Enrollees Facilities Inspected</i> .
Minor Individual Permits Issued, Revised, and Renewed	12	8	67%	n/a	n/a	
Minor Individual Facilities Inspected	17	16	97%	n/a	17	Us Air Force McClellan is a minor facility which is listed under the Department of Defense (DOD) inspections.
Minor General Enrollees Facilities Inspected	0	2	N/A	n/a	2	Atwater Regional WWTF and El Dorado Hills WWTP

Waste Discharge to Land – Wastewater – Table 5b.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	26	55	165%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	161	206	143%	n/a	231	

Land Disposal – Table 5c.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
Landfills Permits Issued, Revised, and Renewed	13	12	92%	n/a	n/a	
Landfill Inspections	111	78	99%	n/a	110	
All Other Permits Issued, Revised, and Renewed	2	5	250%	1	n/a	Additional 5 facilities were enrolled under General Order 2015-0121-DWQ.
All Other Inspections	30	47	197%	n/a	59	

NPDES Storm Water – Table 5d.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
Stormwater Construction Inspections	385	293	102%	n/a	394	
Stormwater Industrial Inspections	195	199	109%	n/a	213	
Stormwater Municipal Inspections	0	8	N/A	n/a	8	

Other Programs – Table 5e.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
Forest Activities Inspections	166	225	148%	n/a	246	
Confined Animal Facility Inspections	275	348	136%	n/a	376	

Clean Up – Table 5f.

Programs	Original Target	Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	Total # of Inspections Performed	Comments
New DoD Sites into Active Remediation	6	7	117%	n/a	n/a	
New SCP Sites into Active Remediation	50	61	122%	n/a	n/a	
Cleanup Program Sites Closed	60	102	170%	n/a	n/a	
New UST Sites into Active Remediation	23	22	95%	n/a	n/a	
Underground Storage Tank Sites Closed	68	72	106%	n/a	n/a	

PERFORMANCE TARGETS

Performance measurement and reporting is an important component of a complete system of performance management needed to demonstrate how well programs or strategies are working and why. Information obtained through better performance measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs.

To this end, the Water Boards establish annual performance targets for key output measures. In effect, these targets are goals that establish measurable levels of performance to be achieved within a specified time period. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the [Resource Alignment Evaluation Report](https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)

(https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf) and was used to develop the FY 2018-2019 performance targets below is the Central Valley Region's Performance Measurement Summary for the 2018-19 fiscal year. This report was produced for the 2018/19 fiscal year.

SANITARY SEWER OVERFLOWS (SSOS) AND COMPLAINTS

Statewide General Waste Discharge Requirements for Sanitary Sewer System (SSS General Order) 2006-003-DWQ requires enrollees to submit SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spill to surface waters. For period between 16 April 2019 through 30 June 2019, there were no reported SSO incident in which 50,000 gallons or greater spilled reached surface water.

For the reporting period between 16 April 2019 through 30 June 2019, there were **158** total SSO spills: **17** Category 1, **8** Category 2, and **133** Category 3 spills.

ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOs including the current Monitoring and Reporting Program (MRP) can be found at the [State Water Board's webpage](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html) (https://www.waterboards.ca.gov/water_issues/programs/sso/index.html). Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 April 2019 through 30 June 2019, Central Valley Water Board staff have received a total of **47** complaints from phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (<https://calepacomplaints.secure.force.com/complaints/>). To date, **42 (89%)** complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining **5** complaints remain ongoing.

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

The Delta Mercury Control Program (DMCP) and the Sacramento-San Joaquin Delta Methylmercury TMDL requires entities responsible for reducing methylmercury in the Delta to participate in control studies to develop and evaluate ways to manage methylmercury. The Basin Plan requires the Regional Water Board to conduct a review of these studies and to consider revision of the Delta Mercury Control Program including the fish tissue objectives, linkage analysis (between sources and objectives), modification of mercury goals, implementation actions (including a mercury offset program), and allocations. The review will consider the individual and aggregate findings of the methylmercury control studies, new data and information for the program, as well as recommendations from an external mercury-expert advisory panel. Most of the control study final reports were completed in October 2018, however, DWR was granted a further extension for the due date of the Open Water Modeling control study, from December 2019 to June 2020. This is an ambitious project that has accomplished tasks that were additional to the workplan. The extension will allow more time to refine the modeling capabilities and complete sensitivity analyses to further inform understanding of mercury transport and deposition in the Delta and Yolo Bypass. The extension will also allow more time for analyses of Best Management Practices that will inform future mercury control studies.

The Delta Stewardship Council has funded and convened an independent scientific peer review and advisory panel to review the methylmercury control study final reports and to make recommendations on the effectiveness of control actions proposed by the dischargers subject to the DMCP. The panel has reviewed the control studies and is currently writing a report on the findings. This report is expected to be completed by August 2019. More information about the [Delta Science Program Independent Review Panel Report](https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/exhibits/docs/swrcb_57.pdf) can be found at:

(https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/exhibits/docs/swrcb_57.pdf).

Mercury TMDL staff have met internally to develop a Public Engagement Plan for the DMCP and have begun planning for a fall 2019 public stakeholder meeting.

DELTA MERCURY EXPOSURE REDUCTION PROGRAM

The Delta Mercury Exposure Reduction Program (MERP) is a collaborative effort of the Central Valley Water Board, the California Department of Water Resources (DWR), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA). It is supported by funds from the Cleanup and Abatement Account and Delta dischargers subject to the Delta Mercury Control Program. The goal of the Delta MERP is to protect public health by reducing exposure to methylmercury in fish caught in the Delta.

MERP staff delivered a presentation at the Sierra Fund's Headwater Mercury Source Reduction Technical Advisory Committee meeting on May 23, 2019 at the State Capital.

Assembly member Bill Quirk spoke about AB 762 and commended MERP staff on exposure reduction accomplishments to date. The presentation provided background information on Delta MERP and discussed mercury exposure actions related to Delta MERP's next steps for evaluating fish consumption advisory sign posting.

In fiscal year 2019-20, MERP staff will be identifying a contractor to conduct an evaluation of the fish consumption advisory signs in order to measure sign posting effectiveness. The project will target subsistence fishing families within the Delta at posted sign locations and measure their understanding of the signs. In addition, MERP staff will focus on outreach and education with Delta Tribes. The Delta Conservancy Tribal Liaison will lead this effort and keep the Regional Board Tribal Coordinator informed.

MERP staff is continuing coordination efforts with local entities and other state agencies for additional fish consumption advisory sign posting at Delta sites with public fishing access in 2019. In addition, MERP staff are posting signs. There are currently 89 advisory signs now posted throughout the five Delta counties.

DELTA MERCURY MONITORING PROGRAM (RMP)

The Delta RMP Steering Committee (SC) approved FY19/20 workplan studies (see below). A Long-Range Planning Meeting is scheduled for July 31, to identify and discuss the long-term planning priorities for the Delta RMP.

The Delta RMP contaminants of emerging concern (CEC) subcommittee has been meeting to develop a work plan and quality assurance program plan so that CEC monitoring can begin in FY19/20. Key topics include determining which labs are capable of achieving acceptable detection limits for each analyte/matrix (water, sediment, fish and bivalve tissue) combination and sample collection logistics.

The Delta RMP mercury subcommittee has met several times to discuss current and future mercury sampling for water and fish tissue. The SC previously approved additional winter water sampling events to support seasonal and annual mass balance estimates for the 2022 Delta Mercury TMDL update. In addition to long-term trend monitoring in fish and water, the group is proposing to monitor prey fish and sport fish near habitat restoration projects in the Yolo Bypass, northeast Delta, and west Delta to start assessing whether restoration projects are impacting mercury levels in fish.

On May 9, the Technical Advisory Committee met to discuss monitoring proposals for FY19/20. The Delta RMP nutrient subcommittee worked with the Delta's Nutrient Research Plan stakeholder group on a proposal to monitor nutrients and biota during the effluent valve replacement project at the Sacramento River Wastewater Treatment Plant scheduled for summer 2019 (see next item). As noted above, the TAC considered proposals from the mercury and CECs subcommittees. Pesticide monitoring will continue, with the only significant change being a reduced rainfall trigger to capture first flush urban runoff earlier in the water year. The TAC also was updated on the progress of the pesticides and toxicity interpretive report due in July 2019.

On June 24, the Delta RMP Toxicity Workgroup meet to discuss preliminary toxicity data results. Some group members suggested conducting a lab comparison study for two of the five toxicity species currently included in the Delta RMP toxicity monitoring. An additional meeting will be held to discuss this further.

DELTA NUTRIENT RESEARCH PLAN

The Central Valley Water Board approved the Delta Nutrient Research Plan (NRP) in August 2018. Completion of the NRP is a priority action in the Central Valley Water Board's 2014 Delta Strategic Work Plan. The plan's intent is to identify and collect information needed to evaluate water quality objectives for nutrients in the Delta.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

Contracting is underway for a Prop 1 grant award for monitoring cyanobacteria toxins in water and sediment organisms. Differences in contracting between the awarding agency (Dept. Fish and Wildlife) and recipient (Water Boards) must be resolved before the award agreement is finalized.

A contract for a Discovery Bay project is expected to be final by December 2019. The project, which is an assessment of nutrient loads in Discovery Bay and a pilot test of algal bloom management, will finish by March 2022. Funding is through USEPA Clean Water Act Section 205(j)).

Staff are continuing monthly monitoring of nutrients in Discovery Bay with help from the Discovery Bay Community Foundation.

Development and testing of a biogeochemical model for the Delta and Suisun Bay is ongoing. Water Boards are providing funding to the San Francisco Estuary Institute (SFEI) for the model.

The Delta RMP Steering Committee approved FY19/20 funds and a work plan for studying nutrients, phytoplankton, and other parameters in channels downstream of the Sacramento River Wastewater Treatment Plant during and after a 48-hour wastewater hold. Nutrient-related projects funded by the Delta RMP in past fiscal years also support the Delta NRP.

Staff participated in regulatory and stakeholder group meetings hosted by State Water Board staff for the Bio stimulatory Objectives/Protection of Biointegrity Policy Project. Nutrient thresholds that may be considered for application to streams on a Statewide basis will affect policy options and, ultimately, nutrient loads in the Delta.

The Delta NRP Stakeholder and Technical Advisory Group meets on 26 July to discuss progress and next steps for modeling. [Delta NRP Program documents and meeting information](https://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/) are available at the following website: (https://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/).

SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION - AERATION FACILITY

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the San Joaquin River Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From May 7, 2019 to July 2, 2019 there were no excursions below the dissolved oxygen water quality objective of 5 mg/L in the channel and operation of the aeration facility was not necessary.

A new agreement for the funding and operation of the dissolved oxygen aeration facility was signed by participating members in June 2019. The new agreement extends the operating term from June 1, of 2019 to May 31, 2022. Parties to the agreement will provide \$200,000 up front for operations and maintenance of the facility with any unspent money available for operations in the third year of the agreement. If the remaining funds are insufficient to fund operations in the third year, the Port will ask signatory parties for what is necessary to fully fund anticipated costs.

Repairs and upgrades of a pipe damaged at the end of 2018 are scheduled to be completed July 8, 2019 ensuring the aerator will be fully operational for any upcoming decline in dissolved oxygen concentrations. More information on the [San Joaquin River dissolved oxygen TMDL Control Program](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml) can be found at the following website: https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml.

TMDL BASIN PLANNING

PESTICIDE BASIN PLANNING/TMDLS

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

On 8 June 2017 the Board adopted the Basin Plan Amendment for the Control of Pyrethroid Pesticide Discharges. The State Water Board approved the Basin Plan Amendment on 10 July 2018. The Office of Administrative Law (OAL) approved the Amendment on 19 February 2019. On 22 April 2019, USEPA approved The TMDLs in the amendment. The Basin Plan Amendment, including the TMDLs, is now fully approved and effective.

Completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers is required 2 years from the date of OAL approval, unless the deadline is extended by the executive officer. Baseline monitoring for municipal or domestic wastewater dischargers will be conducted during their effluent characterization monitoring. The conditional prohibition established by the Amendment becomes effective 3 years from the date of OAL approval. A stakeholder meeting to discuss implementation of the Basin Plan Amendment, including development of the Pyrethroid Research Plan, was held on 31 May 2019 in the Rancho Cordova office. Staff will be

following up on the meeting with letters to dischargers clarifying expectations for baseline monitoring and possible extensions of monitoring deadlines to accommodate method development, time needed for monitoring and laboratory contracting, and dischargers annual monitoring cycle. The [Central Valley Pyrethroid TMDL and Basin Plan Amendments](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html) can be found on the following website:
(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html)

NEW MANAGEMENT AGENCY AGREEMENT WITH THE DEPARTMENT OF PESTICIDE REGULATION

On 18 June the State Water Resource Control Board adopted a resolution authorizing the Executive Director to execute a revised Management Agency Agreement (2019 MAA) between the State Water Resources Control Board and the Department of Pesticide Regulation. The MAA had not been updated since 1997. Central Valley Water Board staff participated in the staff workgroup that developed the new MAA. More information is available under [Agenda item #15](https://www.waterboards.ca.gov/board_info/agendas/2019/jun/061819_agenda.pdf) at
(https://www.waterboards.ca.gov/board_info/agendas/2019/jun/061819_agenda.pdf).

MERCURY TMDLS

CENTRAL VALLEY RIVERS TMDL

In May and June 2019, the Central Valley Water Board staff sampled aqueous and sediment mercury and methylmercury in 34 impaired river waterbodies throughout the Central Valley. This additional data will be used to support development of the Central Valley Rivers TMDL.

STATEWIDE MERCURY CONTROL PROGRAM FOR RESERVOIRS

On 27 June 2019, Patrick Pulupa, Adam Laputz, Meredith Howard, and Lauren Smitherman met with EPA Region 9, State Water Board and San Francisco Bay Regional Water Board Executives and staff to discuss regulatory mechanisms to address statewide mercury impairments in reservoirs. Options included adopting a program of implementation focusing on in-reservoir pilot studies as well as various TMDL approaches.

TRIBAL BENEFICIAL USES DESIGNATION

On 2 May 2017 beneficial use designations relating to California Native American tribes were established by the State Water Resources Control Board (State Water Board) through Resolution 2017-0027 which adopted *Part 2 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California—Tribal and Subsistence Fishing Beneficial Uses and Mercury Provisions*. The new beneficial use definitions are Tribal Tradition and Culture (CUL), and Tribal Subsistence Fishing (T-SUB) (“Tribal Beneficial Uses”). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American

Tribes. The SUB, T-SUB, and Commercial and Sportfishing (COMM) beneficial uses relate to the risks to human health from the consumption of fish or shellfish. In addition, the definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights.

Several tribes in the Central Valley have requested that the Central Valley Regional Water Quality Control Board (Central Valley Water Board) designate Tribal Beneficial Uses. On 6 December 2018 the Central Valley Water Board adopted Resolution R5-2018-0079 which approved the 2018 Triennial Review including Tribal Beneficial Uses as a priority project.

Subsequent to the Central Valley Regional Board identifying Tribal Beneficial Uses as a priority project, Central Valley Water Board staff have been identifying resources and working on a project charter to integrate Tribal Beneficial Uses into the Region's Basin Plans. Staff have also been coordinating with other Regions and the State Water Board's Office of Public Participation (OPP) to share strategies for this project. To that end, Central Valley Water Board staff are chairing a "Tribal Beneficial Uses Working Group" to better facilitate communication and progress on this project with the other Regional Boards and OPP.

PIT RIVER EVALUATION

The 2018 Triennial Review identified *Reassessment of Beneficial Uses and Water Quality Objectives in Specific Reaches of the Pit River* as a priority project.

Reevaluating water quality objectives in the Pit River system had been referenced in the previous Triennial Review workplans in 2011 and 2014. Commenters on the project had requested that the Central Valley Water Board re-evaluate existing beneficial uses in specific reaches of the Pit river.

Central Valley Water Board staff have started meeting with Pit River stakeholders to solicit input on the specific concerns and to develop the project goals and regulatory processes needed to address these concerns. Additional stakeholder meetings will be convened throughout Fall 2019.

SALINITY AND CV-SALTS

CENTRAL VALLEY SALINITY ALTERNATIVES FOR LONG-TERM SUSTAINABILITY (CV-SALTS)

The CV-SALTS Central Valley-wide Salt and Nitrate Management Plan (SNMP) was completed and submitted to the Board on 12 January 2017. A resolution acknowledging receipt of the SNMP and directing staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March 2017 hearing. [Final copies of the SNMP and related policy documents](#) can be found at the following website:

(https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/salt_nitrate_mgtplan/).

The Basin Plan Amendment (Salt and Nitrate Control Program BPA) with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). [The Adoption Resolution with the final Staff Report and Basin Plan Amendment language](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa) can be found at the following website: (https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa).

The amendments must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law and for those portions subject to the Clean Water Act, by the USEPA. A public workshop to discuss the Salt and Nitrate Control Program was held at the State Water Board on 2 July 2019. A State Water Board hearing to consider approval of the amendments is expected within the next few months.

As staff work to bring the amendments to the State Water Board for consideration, focused stakeholder meetings are continuing through the CV-SALTS Public Education and Outreach Committee and a Clean-up and Abatement Account grant to conduct Early Implementation Management Zone pilot studies in the Turlock and Kings River groundwater basins. Local dischargers and agencies are working together to characterize the basins and provide safe drinking water to users with elevated nitrate in groundwater supplies. An additional grant effort is focused on development of a workplan for the salinity Prioritization and Optimization Study.

CV-SALTS MEETING PARTICIPATION

On 23 May and 20 June 2019, Patrick Pulupa, Adam Laputz, Anne Littlejohn and Walter Plachta participated in the CV-SALTS Executive Committee meetings. Discussions focused on the Basin Plan Amendment Approval process, program implementation planning, and grant activities relating to the development of Management Zone pilot studies, the Salinity Prioritization and Optimization Study work plan and other Salt and Nitrate Control Program outreach activities.

On 12/13 June 2019, Anne Littlejohn, Walter Plachta, and Adam Laputz participated in steering committee meetings for the two Management Zone Early Implementation grant efforts in the Turlock and Kings River groundwater basins. Meetings focused on evaluating potential water replacement and community outreach strategies.

On 21 May and 18 June 2019, Patrick Pulupa, Anne Littlejohn and Water Plachta participated in the CV-SALTS Public Outreach and Education Committee conference call meetings. The meetings focused on developing outreach material (e.g. video, factsheets) for the public.

On 2 July 2019, Patrick Pulupa, Anne Littlejohn, Adam Laputz and Jessica Jahr participated in a day-long workshop where the State Water Board discussed the CV-SALTS Basin Plan Amendments. Board Chair Karl Longley and former Vice Chair Denise Kadara were also in attendance.

EVALUATION OF MUNICIPAL AND DOMESTIC SUPPLY (MUN) BENEFICIAL USE IN AG DOMINATED SURFACE WATER BODIES

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board hearing to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date. Central Valley Water Board staff are continuing to work with State Board staff to address questions and concerns that were raised during the 10 July hearing and identify next steps.

More information on the [proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies](http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml) can be found at: (http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml).

UNITED STATES BUREAU OF RECLAMATION (USBR)—MANAGEMENT AGENCY AGREEMENT (MAA)

MAA meetings with Central Valley Water Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. On 17 June 2019, James Brownell participated in the MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP). On 1 July 2019, USBR released a [draft Annual Work Plan](https://www.usbr.gov/mp/ptms/docs/2020-annual-work-plan.pdf) (<https://www.usbr.gov/mp/ptms/docs/2020-annual-work-plan.pdf>) for public comment. The due date for comments 31 July 2019. USBR will submit a final Annual Work Plan to the Central Valley Water Board for approval in August 2019.

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT

SUMMER 2019 RECREATIONAL BENEFICIAL USE ASSESSMENTS

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using *E. coli* as an indicator of fecal pollution. This summer, the Central Valley Water Board is conducting weekly sampling in the Stockton Urban Waterways and the Upper San Joaquin River. Results are posted each week to an online map.

Online maps and more information on these [SWAMP projects](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r5_activities/) are available at: (https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r5_activities/). The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. SWAMP is coordinating with local agencies to develop a source identification and pathogen monitoring plan in 2019 for this portion of the river.

To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly *E. coli* samples in the Lower American River and Steelhead Creek and posting results to an online map

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL ORDERS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Tables 1 through 3, below, summarize the Notices of Applicability that were issued between 1 July 2018 and 30 June 2019 for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order), Waste Discharge Requirements for Cold Water Concentrated Aquatic Animal Production Facility Discharges to Surface Waters (CAAP General Order), and Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order).

NPDES PERMIT TABLE 1 –LIMITED THREAT DISCHARGES TO SURFACE WATERS

Facility	General Order Permit Number
Kiefer Landfill Groundwater and Extraction and Treatment Plant	R5-2016-0076-033
Ralston Afterbay Dam Low Level Outlet Project	R5-2016-0076-042
Patterson Sand and Gravel Facility Dewatering Project	R5-2016-0076-045
Southport Levee Improvement Project	R5-2016-0076-046
Balsam Meadows Hydroelectric Project/Eastwood Powerhouse Facility	R5-2016-0076-047
IPT Tracy Building II Construction Dewatering Project	R5-2016-0076-048
Gopher Hill Landfill Leachate Disposal (amended NOA)	R5-2016-0076-022
Sierra Minerals, LLC – Colombo Mine	R5-2016-0076-049
DWR Hyatt Waterline Project	R5-2016-0076-050
Nautilus Data Technologies, Inc.; Data Storage Facility	R5-2016-0076-040

Facility	General Order Permit Number
Former J.R. Simplot Facility (amended NOA)	R5-2016-0076-010
Shasta County New Redding Courthouse	R5-2016-0076-052
Lake Isabella Dam Safety Modification Project	R5-2016-0076-053

NPDES PERMIT TABLE 2 –COLD WATER CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY DISCHARGES TO SURFACE WATERS

Facility	General Order Permit Number
San Joaquin Fish Hatchery and Salmon Conservation and Research Facility (amended NOA)	R5-2014-0161-025

NPDES PERMIT TABLE 3 - MUNICIPAL GENERAL ORDERS

Facility	County	General Order Permit Number
El Dorado Irrigation District El Dorado Hills Wastewater Treatment Plant	El Dorado County	R5-2017-0085-002
City of Lodi, White Slough Water Pollution Control Facility	San Joaquin County	R5-2017-0085-003
City of Roseville, Dry Creek Wastewater Treatment Plant	Placer County	R5-2017-0085-004
City of Roseville, Pleasant Grove Wastewater Treatment Plant	Placer County	R5-2017-0085-005
City of Williams Wastewater Treatment Plant	Colusa County	R5-2017-0085-008

EXECUTIVE OFFICER ISSUED TIME SCHEDULE ORDERS

In accordance with Central Valley Water Board Resolution No. R5-2018-0057, and Water Code section 13223, the Executive Officer has been delegated authority to issue Time Schedule Orders. NPDES Table 4, below, summarizes the Time Schedule Orders issued by Executive Officer between 1 July 2018 and 30 June 2019.

NPDES PERMIT TABLE 4 – TIME SCHEDULE ORDERS

Facility	County	Time Schedule Order Number
Nevada County Sanitation District No. 1, Cascade Shores Wastewater Treatment Plant	Nevada County	R5-2019-1001
City of Lincoln Wastewater Treatment and Reclamation Facility	Placer County	R5-2019-1003

DAIRIES/CONFINED ANIMAL FACILITIES

POULTRY DISEASE OUTBREAKS

Due to outbreaks of avian influenza and virulent Newcastle disease, including in the Central Valley, and at the request of the State Veterinarian, staff is suspending on-site inspections of poultry facilities. This policy will be reevaluated on October 1st. Because most poultry facility inspections occur during periods of wet weather, the short-term impact of suspending on-site inspections is not significant. If staff become aware of an imminent threat to water quality for which an inspection is necessary, we will coordinate with the Department of Food and Agriculture and follow all biosecurity procedures specified by them.

ALTERNATIVE MANURE MANAGEMENT

Staff has an active role in the Technical Advisory Committee for review of Alternative Manure Management Program proposals submitted to the California Department of Food and Agriculture under a competitive grant application process. Funded by California Climate Investments, the program provides financial assistance for the implementation of non-digester manure management practices resulting in reduced greenhouse gas emissions. Ninety-one (91) applications were received for a total funding request of approximately \$55 million. Grant awardees are anticipated to be announced in September. Information about the 2019 Alternative Manure Management Program is available at the [Department of Food and Agriculture's alternative manure management web site](http://www.cdffa.ca.gov/oefi/ammmp/) (<http://www.cdffa.ca.gov/oefi/ammmp/>).

DIGESTERS

Staff has an active role in the Technical Advisory Committee for review of Dairy Digester Research and Development Program proposals submitted to the California Department of Food and Agriculture under a competitive grant application process. The Department of Food and Agriculture's Dairy Digester Research and Development Program provides financial assistance for the installation of dairy digesters, which will result in reduced greenhouse gas emissions from manure generated on California dairy farms. Financial assistance comes from California Climate Investments, a statewide initiative that uses Cap-and-Trade program funds to support the State's climate goals. Sixty-six (66) applications were received and are under review for a total funding request of approximately \$102 million. Grant funding will be awarded in late September. Information about the 2019 Dairy Digester Research and Development Program projects is available at the [Department of Food and Agriculture's dairy digester web site](http://www.cdffa.ca.gov/oefi/ddrdp/) (<http://www.cdffa.ca.gov/oefi/ddrdp/>)

OIL FIELDS

WASTEWATER SURFACE PONDS

Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land, and to evaluate closure plans for produced wastewater ponds. Notices of Applicability for a Caleco, Inc., pond in the Cymric Oil Field and for two ponds operated by Dole Enterprise, Inc., in the Midway Sunset Oil Field are pending.

Staff continues to inspect facilities to ensure compliance with the General Orders and to verify the condition of facilities that will be closed. Staff continues to review monitoring reports required by waste discharge requirements and technical reports that request rescission of groundwater monitoring requirements from recently issued Revised Monitoring and Reporting Programs.

Closure plans recently reviewed have included those for the following: a single Vaughn, LLC pond in the Midway-Sunset Oil Field, a single J & K Operating Company, Inc., pond in the Midway-Sunset Oil Field; and, six California Resources Corporation ponds in the Elk Hills Oil Field.

Aera Energy LLC submitted a solids management plan in response to NOAs issued for their ponds in the Lost Hills Oil Field. The plan indicated that oil field solids are generated and then transported to the “Belridge Road Mix Facility.” Road mix materials are then spread within Aera’s operating fields. The oil fields from which the solids are generated are: “Belridge,” Lost Hills, Midway-Sunset, Coalinga, San Ardo, and Ventura. In a letter dated 4 June 2019, Central Valley Water Board staff requested that a report of waste discharge be submitted for discharges at the Facility.

SPILL RESPONSE

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Board staff were notified of 15 events in May and June.

A spill of crude oil occurred near the KCL Lease operated by Griffin Resources (Griffin), in the Fruitvale Oil Field on 1 May. According to OES, a pipeline failure caused the discharge of approximately 6.5 barrels (bbl(s)) (273 gallons (gals)) of crude oil during hydro-testing of the pipeline. According to staff of the Division of Oil, Gas, and Geothermal Resources (Division), the discharged oil accumulated in a concrete box and the discharge was stopped. The Division staff also said that the leaking pipe passes underneath a water canal. Therefore, The Division of Water of the City of Bakersfield required Griffin to collect water samples from the canal upstream and downstream of the pipe location. In a telephone conversation on 8 May 2019, Griffin staff told staff that no water ways were affected by the spill and cleanup of the affected areas had been completed.

A spill of crude oil occurred near the KCL Lease operated by Griffin, in the Fruitvale Oil Field on 8 May. According to OES, a stuffing box leak on a production well caused the discharge of approximately 2 barrels (bbl(s)) (84 gallons (gals)) of crude oil to land. According to Griffin staff, all the discharged oil was contained within a well head cellar and no natural drainage courses or dry stream beds were affected. Griffin staff added that cleanup of the discharged oil had been complete.

A spill of crude oil and oil field produced wastewater occurred on the Elridge Lease operated by Aera Energy, LLC. (Aera), in the McKittrick Oil Field on 8 May. According to OES, an accidental vehicle collision with a well head caused the discharge of approximately 13 bbls (546 gals) of crude oil and oil field produced wastewater to land. According to Aera staff, half of the discharged fluids was oil and the other half was wastewater. Aera staff also stated that the discharged fluids affected previously disturbed flat areas, and no natural drainage courses or dry stream beds have been affected by the spill. Aera staff added that cleanup of the affected areas was in progress and expected to be complete by the same day the spill occurred (8 May). Board staff requested Aera staff to provide photographs of the areas affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on the 32 Dehydration facility operated by Aera, in the Coalinga Oil Field on 10 May. According to OES, a mechanical failure caused the discharge of approximately 10 bbls (420 gals) of crude oil and oil field produced wastewater to land. According to Aera staff, the discharge had been stopped and the discharged fluids were contained within production facilities on the side of a hill. Aera staff also stated that no natural drainage courses or dry stream beds have been affected by the spill. Aera staff added that cleanup of the affected areas was being conducted by Patriot Environmental Services and that staff of the Division will inspect the spill site. Board staff requested Aera staff to provide photographs of the affected areas and global positioning system (GPS) coordinates of the point of discharge.

A spill of crude oil and oil field produced water occurred on the Section 1Y Lease operated by Chevron USA, Inc. (Chevron), in the Cymric Oil Field on 10 May. According to OES, a surface expression (seep) discharged approximately 30 bbls (126 gals) of crude oil and oil field produced water to a dry stream bed. During a telephone conversation on 10 May, Chevron staff stated that there were no steam-stimulated production wells within 300 feet of the seep location. Chevron staff also said that Chevron was investigating the cause of the spill; whether it was caused by steam injection or if it was a natural seep. Chevron staff added that staff of the California Department of Fish and Wildlife- Office of Oil Spill Prevention and Response (CDFW-OSPR) were going to inspect the spill site on 10 May. Chevron staff provided Board staff with location information and photographs of the affected stream bed on 13 May. According to Chevron staff, the seep stopped at around 3:00 on 11 May and discharged an estimated total of 105 bbls (4,410 gals) of oil and produced water. Board Staff kept regular communications with Chevron staff regarding the conditions of the seep and inspected the spill site on 18 June to observe the conditions of the affected stream bed. According to Chevron staff, as of 15 July cleanup of the oil-affected materials within the stream bed had not started because the spill site has not been determined to be safe to

enter. Chevron staff told Board staff that it was determined that the source of the seeps is a nearby abandoned well (Cymric 1Y- 140S). Chevron staff added that the source well was re-abandoned on 10 July.

A spill of crude oil occurred on the Midway Sunset Lease operated by Seneca Resources (Seneca), in the Midway Sunset Oil Field on 21 May. According to OES, a failure at a well stuffing box caused the discharge of an unknown amount of crude oil into a dry blue line stream bed. According to Seneca staff, the discharged fluids consisted of approximately 10 bbls (420 gals) of a mix of crude oil and oil field produced wastewater. Seneca staff added that the discharge has been stopped and the discharged fluids were contained. Seneca staff also stated that the discharged fluids affected a dry stream bed that is considered waters of the state according to CALEMA. Seneca staff told Board staff that CDFW-OSPR staff contacted them and arranged to inspect the spill site on 21 May. During a telephone conversation on 1 July, Seneca staff told Board staff that cleanup of the affected areas had been completed, and staff of the CDFW-OSPR inspected the spill site and signed-off on the site cleanup on 30 May.

A spill of crude oil occurred on a facility operated by Aera, in the South Belridge Oil Field on 22 May. According to OES, an intermittent discharge from an underground pipeline discharged approximately 4 bbls (168 gals) of crude oil into soil. According to Aera staff, the discharged fluids affected flat areas and no natural drainage courses, or dry stream beds have been affected by the spill. Aera staff also said that the discharge stopped at about 17:30 on 22 May. Aera staff added that cleanup of the affected areas was mostly complete, and that staff of the Division and Kern County Environmental health inspected the spill site.

A spill of oil field produced wastewater occurred on the Greely Water Plant operated by Crimson Resources (Crimson), in the Greely Oil Field on 23 May. According to OES, a pipe leak caused the discharge of approximately 15 bbls (630 gals) of crude oil into soil affecting one row of a grape vineyard. The OES report also states that the discharged fluids affected a small county road and that Crimson was conducting cleanup at the time of reporting. According to Crimson staff, the discharged fluids originated from a pipeline that feeds an underground injection disposal well. Crimson staff also said that Crimson has removed all the free-standing fluids from the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the Reed Lease operated by Chevron, in the Kern River Oil Field on 30 May. According to OES, a flow line leak discharged approximately 2.4 bbls (101 gals) of crude oil and 0.1 bbls (4.2 gals) of wastewater into a dry blue line stream bed. The OES report also states that the discharge had been stopped and cleanup was in progress by a contractor. In a telephone conversation on 31 May, Chevron staff said that staff of CDFW-OSPR inspected the spill site and that cleanup of the affected areas was almost complete. Chevron staff added that staff of CDFW-OSPR will conduct a post-cleanup inspection once cleanup is complete.

A spill of crude oil occurred on the Section 6D Lease operated by California Resources Corporation (CRC), in the Buena Vista Oil Field on 5 June. According to OES, a power

outage caused the overflow of crude oil from an above ground storage tank. The OES report states that of the discharged 3-bbls (126 gals) of oil, 1 bbl (42 gals) escaped the tank containment area and puddled in a dry blue line stream bed. The OES report also states that a contractor was conducting cleanup of the affected areas. According to CRC staff, Patriot Environmental Services conducted cleanup of the affected areas. CRC staff also said that staff of the CDFW-OSPR contacted CRC regarding the spill. CRC staff said that they will provide Board staff with photographs of the areas affected by the spill.

A spill of crude oil and oil field produced water occurred on the Section 1Y Lease operated by Chevron, in the Cymric Oil Field on 8 June. According to the initial OES report, a surface expression (seep) discharged approximately 3 bbls (126 gals) of crude oil into a dry stream bed. A second seep location was reported on 23 June under the same OES report number. The 8 June seep and the 23 June seep affected the same section of the dry stream bed affected by the 10 May seep described above. According to OES report updates and Chevron staff, the seeps discharged fluids into the stream bed intermittently for varying periods on different dates. Chevron staff provided Board staff with location information and photographs of the affected stream bed on 11 June. Board Staff kept regular communications with Chevron staff regarding the conditions of the seep and inspected the spill site on 18 June to observe the conditions of the affected stream bed. Chevron staff told Board staff that it was determined that the source of the seeps is a nearby abandoned well (Cymric 1Y- 140S). Chevron staff added that the source well was re-abandoned on 10 July. According to the most recent OES report update on 11 July, an estimated 18,905 bbls (794,010 gals) of fluids were recovered from the affected stream bed as a result of the 8 June and the 23 June seeps combined. Chevron staff told Board staff that the recovered produced fluids are sent to fluid handling facilities for processing. There is no estimate of the total fluids discharged into the stream bed. According to Chevron staff, as of 15 July, cleanup of the oil-affected materials within the stream bed has not started because the spill site has not been determined to be safe to enter. Chevron staff told Board staff that discharge from the seeps stopped as of 9 July and no discharge has occurred since then.

A spill of oil field produced wastewater occurred on the Cordes Lease operated by Chevron, in the Kern River Oil Field on 13 June. According to OES, a pipe leak due to corrosion discharged approximately 0.9 bbls (37.8 gals) of oil field produced wastewater into a dry stream bed. The OES report also states that the discharge had been stopped and cleanup was in progress. In a telephone conversation on 14 June, Chevron staff told Board staff that staff of CDFW-OSPR did not inspect the spill site but requested photographs of the areas affected by the spill.

A spill of oil field produced wastewater occurred on the San Joaquin Lease operated by Chevron, in the Kern River Oil Field on 17 June. According to OES, a leak from a well stuffing box caused the discharge of approximately 0.6 bbls (25.2 gals) of oil and 1 bbl (42 gals) of oil field produced wastewater into a dry stream bed. On 21 June, Board staff and staff of CDFW-OSPR conducted a post-cleanup inspection of the affected areas. Board staff observed that the areas affected by the spill appeared to be mostly visibly clean. Staff of CDFW-OSPR signed-off on the site cleanup on 21 June.

A spill of crude oil occurred on a pumping station operated by Plains All American (Plains), in the North Cole Levee Oil Field on 19 June. According to OES, an equipment malfunction caused the discharge of approximately 4 bbls (168 gals) of oil to land. The OES report states that the discharge was stopped by shutting down the power supply. In a telephone conversation on 19 June, Plains staff told Board staff that no natural drainage courses or dry stream beds were affected by the discharged fluids. Plains staff added that all free-standing fluids had already been recovered from the affected areas and all oil-affected materials will be removed. During a telephone conversation on 1 July, Plains staff told Board staff that the final estimated volume of the discharged oil is approximately 45-bbls. Plains staff added that cleanup of the affected areas was in progress and was roughly 75% complete. Board staff requested Plains staff to provide photographs of the affected areas before and after cleanup.

A spill of crude oil occurred on a road near the intersection of Airport Road and Honolulu Road near a facility operated by CRC, in the Midway Sunset Oil Field on 30 June. According to OES, a gravity line leak caused the discharge of approximately 1 bbl (42 gals) of crude oil to land. The OES report states that the oil bubbled through the cracks in asphalt on a road. The OES report also states that the leak had been isolated and stopped and cleanup was being handled by a contractor.

Staff will conduct appropriate follow-up activities and consider appropriate enforcement for the spills.

UIC PROGRAM

AQUIFER EXEMPTIONS

During the period from 6 May 2019 through 28 June 2019, staff of the Underground Injection Control Unit (UIC) performed the following aquifer exemption activities:

Midway-Sunset Aquifer Exemption—State Water Board and Central Valley Board staff received responses from the Division of Oil, Gas, and Geothermal Resources (Division) to its joint questions regarding the request for an aquifer exemption expansion for injection into the Tulare B and Lower Tulare aquifers within the Midway-Sunset Oil Field. Staff are reviewing the Division's responses, new figures, tables, and water quality data, and have begun preparing its additional comments/concerns to be sent to the State Water Board;

South Belridge Aquifer Exemption—Staff are working with the State Water Board and Aera Energy (Aera) to finalize a workplan and schedule for Area to transition its discharge of produce water into the Tulare Formation in the eastern flank of the South Belridge Oil Field to the western flank. This transition is in response to an aquifer exemption proposal for the Tulare Formation in the South Belridge Oil Field that does not include the eastern area that Aera currently uses for its produced water disposal injections;

Elk Hills Aquifer Exemption-In response to the State Water Board's concurrence with an aquifer exemption for only the lower portion of the Tulare Formation in the Elk Hills Oil Field, California Resources Corporation's (CRC) prepared and submitted an Elk Hills Water Transition Work Plan and timelines for CRC to cease injection into the upper Tulare Formation within Elk Hills. Central Valley Water Board and State Water Board staff are working with CRC to finalize a revised version of the workplan and timeline for transition activities;

Kern River Aquifer Exemption-Staff concluded its discussions regarding potential reductions to the area proposed for the Aquifer Exemption Expansion in the Kern River Oil Field with the Operator, State Water Board, and Division staff. As a result of these discussions, the State Water Board has issued a draft Preliminary Concurrence Letter to the Division for its review and comments; and

Round Mountain South Aquifer Exemption-Central Valley Water Board and the State Water Board staff issued joint questions to the Division regarding its concerns/questions with the Aquifer Exemption Application for the Olcese Formation in the Round Mountain South Oil Field.

UIC PROJECT REVIEWS

Staff objected to a proposed water flood injection project in the Coalinga East Oil Field Extension due to the use of void replacement ratio (VRR) in its project approval letter (PAL) prior to the Water Board's concurrence with this approach. UIC staff issued one no-objection letter for a UIC project in the Kern Front Oil Field, and one no-objection (with conditions) letter and memorandum for a UIC project in the Paloma Oil Field.

Staff sent its initial questions and concerns to the Division regarding potential impacts to groundwater quality from three injection projects, one each in the Kern Front, Coalinga, and Edison Oil Fields. These questions formed the basis of meetings (face-to-face and conference calls) between the two agencies to discuss potential resolutions to staff's concerns.

Staff sent the Division follow-up questions for four injection projects, one in the Five Points Oil Field, one in Midway-Sunset Oil Field, and two in the Round Mountain Oil Field.

Additionally, Central Valley Water Board and State Board staff concurrently reviewed a UIC project by project and new project in the Tejon Oil Field and participated in discussions with the Division regarding its concerns with the proposed new project.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Board staff have completed seven SB4 Well Stimulation Treatment (WST) Application package reviews and submitted written comments to the State Water Board. Application packages were reviewed only for locations at or near where "protected groundwater" may or has been determined to be

present. One Application package was for the Aera Energy LLC, South Belridge Oil Field. One Application package was for the Aera Energy LLC, Lost Hills Oil Field. One Application package was for the Aera Energy LLC, North Belridge Oil Field. One Application package was for the Berry Petroleum, LLC, South Belridge Oil Field. Three Application packages were for the California Resources Elk Hills, Elk Hills Oil Field. Eighteen WST Application packages are under review.

Board staff have also reviewed five groundwater monitoring related plans and submitted written comments to the State Water Board. The plans reviewed were as follows: California Resources Production Corporation's Addendum 9, Buena Vista Nose area; two Berry Petroleum Company LLC Addendums for the South Belridge Oil Field; Aera Energy LLC's Addendum for the South Belridge Oil field; and, Chevron U.S.A. Inc.'s Lost Hills Oil Field.

Central Valley Water board staff have completed the review of groundwater monitoring reports for the North Coles Levee Oil Field and for the South Belridge Oil field. Draft letters and technical memorandums were submitted to State Water Board staff. The reports present groundwater sampling results associated with samples collected from locations where well stimulations were previously conducted. Groundwater monitoring reports for seven other locations are currently under review. State Water Board staff have scheduled a meeting on 1 August 2019 with oil field operators that have submitted groundwater monitoring reports. The meeting is to include an informational discussion item on reporting requirements for the area-specific groundwater monitoring program.

FOOD SAFETY

On 9 May 2019, the Central Valley Water Board hosted a public meeting of the Food Safety Expert Panel. The meeting consisted of the following: (1) update on waste discharge requirements adopted by the Central Valley Water Board during the April and June 2019 meeting; (2) update on chemicals of concern by GSI Environmental, Inc.; (3) discussion of fruit sampling; and (4) and an open discussion for the Panel and members of the public.

During June 2019, the Central Valley Water Board had two separate conference calls with members of the Duke University Study and the Panel. These conference calls were not open to public but provided Central Valley Water Board staff the opportunity to update the Panel and members of the Duke University Study on the progress of the Food Safety Project. Members of the Duke University Study also provided updates on their project to Central Valley Water Board staff and Panel members.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

QUARTERLY STAKEHOLDER MEETINGS

Central Valley Water Board staff holds quarterly ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in the Central Valley Region. The July 10th

meeting, to be held in Merced, will focus on the status of the CV-SALTS Basin Plan Amendments and changes to document availability on the ILRP website. More information regarding the stakeholder meetings can be found on the Central Valley Water Boards' [ILRP – Stakeholder Meetings and Workgroups web page](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html) (https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html).

EXPERT REVIEW OF ESJWQC SURFACE WATER MONITORING FRAMEWORK

State Water Resources Control Board Order WQ-2018-0002 directs the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition's surface water monitoring framework. The expert review process is being implemented by a facilitator, Steve Weisberg of SCCWRP. A nine-member Advisory Group consisting of 3 agricultural representatives, 3 environmental protection representatives, and 3 Water Boards representatives has been formed and held its second meeting on 19 June 2019. The Advisory Group has identified their preferred Expert Review Panel members and refined the charge questions for the panel.

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

DRINKING WATER WELL MONITORING OUTREACH

Outreach efforts continue for the new drinking water well monitoring requirements in the East San Joaquin Water Quality Coalition. Staff is continuing to answer phone calls, respond to emails from members and work with testing laboratories. Staff is also working with GeoTracker staff on developing reporting tools to help identify member compliance with the program. Staff is also preparing and refining outreach efforts for the Tulare Lake Basin (requirements start in 2020) which includes revising outreach materials, working with stakeholders and identifying certified laboratories within the area.

AGRICULTURAL PARCEL INSPECTIONS

The purpose of these inspections is to determine if the parcels are commercial irrigated lands and require coverage under the ILRP. Data gathered during these inspections will be used to focus and prioritize issuance of 13260 directives to commercial irrigated lands not covered by the ILRP. Growers may obtain coverage by joining an agricultural water quality coalition and enrolling in the associated ILRP general order or enrolling in the ILRP individual general order. The table below presents parcel inspections conducted for each coalition area. Coalition areas not shown had no inspections during the reporting period.

Coalition Area	Parcel Inspections May 7 – July 1
Kaweah Basin	133
San Joaquin County & Delta	86
Westside San Joaquin	38
Sacramento Valley	1611
Total	1868

ON-FARM INSPECTIONS FOR GENERAL ORDER COMPLIANCE

The purpose of on-farm inspections is for Board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. These inspections include staff review of the farm evaluations, nitrogen management plans and sediment and erosion control plans. Board staff inspects the site conditions, including potential discharge points to surface waters, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

Coalition Area	On-Farm Inspections May 7 – July 1
San Joaquin County & Delta	6
Sacramento Valley	12
Total	18

WATER CODE SECTION 13260 DIRECTIVES

Staff continues to send directive letters for those owners of potential commercial irrigated lands identified through staff inspections of agricultural-zoned parcels and require the recipients to enroll with a third-party group within 15 days of receipt of the directive. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	Directives Mailed May 7 – July 1
Sacramento Valley	133
San Joaquin & Delta	74
Kings River	23
Total	230

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE

Notices of Violation (NOVs) were sent to un-enrolled farmland owners or operators within the East San Joaquin Coalition area and the Kaweah Basin Water Quality Association area for their failure to respond to a 13260 Directive letter. Failure to

respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed May 7 – July 1
East San Joaquin	36
Kaweah Basin	7
Total	43

COALITION ENROLLMENT SUMMARY

In past EO Reports, coalition enrollment updates were provided based on Notices of Intents (NOIs) submitted to the Board. During the recent updates of the ILRP General Orders, the NOI requirement for new coalition members was removed to streamline the enrollment process. ILRP General Orders require coalitions to provide enrollment data each July, and Board staff requests a voluntary update in December to ensure accurate information for annual billing. Based on those timeframes, enrollment information in the Executive Officer Reports will be provided twice a year in April and October.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

CALIFORNIA RICE COMMISSION

Surface water monitoring for the 2019 sampling season commenced on 28 May 2019. The results of sampling will be reported in the 2019 Annual Monitoring Report, due on 31 December.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 29 May, the Executive Officer approved the Sacramento Valley Water Quality Coalition's requests to complete management plans for diuron and *Ceriodaphnia dubia* toxicity in the Willow Slough represented drainages.

On 1 May, the Sacramento Valley Water Quality Coalition submitted the annual reports for 2018. These include the Surface Water Monitoring Report, Groundwater Monitoring Report, Chlorpyrifos and Diazinon Total Maximum Daily Load (TMDL) Report, and the Management Plan Progress Report. These are currently under staff review.

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

EAST SAN JOAQUIN WATER QUALITY COALITION

On 20 May, the Executive Officer approved the Coalition's request to extend the due date for the 5-Year Groundwater Assessment Report (GAR) Vulnerability Designations Review from 4 June 2019 to 30 November 2019.

On 7 June, the Executive Officer approved the Coalition's request to extend the 1 July 2019 Management Practice Implementation and Nitrogen Application report to 1 August 2019. The extension will allow the Coalition enough time to review the accuracy of the reported data, collect missing data and report an accurate analysis of the nitrogen use in the Coalition region.

On 21 June, the Coalition submitted an amendment to the 2014 Surface Water Quality Management Plan. The amendment includes a Management Plan Strategy for pyrethroid impairments in the Mustang Creek at East Ave site subwatershed. The amendment is currently under staff review.

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

On 1 May, staff received the San Joaquin County and Delta Water Quality Coalition's Annual Monitoring Report (AMR) for the reporting period 1 October 2017 through 30 September 2018 per its Order. It includes the Groundwater Trend Monitoring results. The AMR is under staff review.

On 2 May, staff received the Coalition's Ground Water Quality Trend Monitoring Quality Assurance Project Plan (QAPP) prior to the 19 June deadline. Staff has reviewed the QAPP and submitted it to the State Water Boards Quality Assurance Officer for review and approval.

On 3 June, the Coalition submitted its June 2019 Quarterly Monitoring Report. The report contains electronic data, field sheets, site photos, and laboratory reports for the Quarterly Monitoring Report (October through December 2018).

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 30 May, the Executive Officer approved the Western San Joaquin River Watershed Coalition's Orestimba Creek site change request. Deteriorating accessibility at the two historic sites was preventing safe access. The new monitoring site is approximately three-quarters of a mile upstream from the River Road site. All active management plans from the previous sites will be implemented and monitored through this site and throughout the watershed.

On 31 May, the Coalition submitted the revised Groundwater Quality Trend Monitoring Program, which is currently under staff review. The summer 2019 monitoring will include seven new wells in addition to the 14 existing network wells from 2018.

On 14 June, the Executive Officer approved 3 management plan completion requests. These included diuron and methyl parathion at Orestimba Creek and sediment toxicity at Newman Wasteway.

On 20 June, the Coalition submitted its pyrethroid pesticides surface water management plan, per the requirements of the 2019 pyrethroid Basin Plan Amendment. It is currently under staff review.

On 30 June, the Coalition submitted its Annual Monitoring Report, which covers monitoring conducted March 2018 through February 2019. It is currently under staff review.

GRASSLAND DRAINAGE AREA COALITION

The 2018 Annual Monitoring Report was submitted on 28 May 2019. The report discusses the results of the first year of groundwater monitoring in the Grassland Drainage Area and proposes updates to the groundwater quality trend monitoring well network for 2019. The report is currently under staff review.

TULARE LAKE BASIN COALITION GROUPS

KERN RIVER WATERSHED COALITION AUTHORITY

On 9 May, staff issued a letter recognizing updates and well additions for the Trend Monitoring Network. These updates and well additions were submitted on 23 January in a Phase II Monitoring Network Addendum 2.0, as requested by staff on 25 September 2018.

KINGS RIVER WATER QUALITY COALITION

On 28 May, staff met with representatives of the Kings River Water Quality Coalition as part of ongoing quarterly update meetings. Topics discussed included the Coalition's progress in developing a revised Surface Water Monitoring Plan (SWMP), an update on Groundwater Quality Trend Monitoring efforts and planned work, potential development of modified reporting requirements for specific categories of growers, and implementation of new requirements contained in the Waste Discharge Requirements General Order for growers within the Tulare Lake Basin Area (R5-2013-0120-07).

TULE BASIN WATER QUALITY COALITION

On 9 May, staff issued a letter recognizing Phase 2 well network updates. The Trend Work Plan Additional/ Replacement Phase 1 and Phase 2 Well Details were submitted 5 March for review in response to staff letter requesting Phase 2 well information on 20 September 2018.

WESTSIDE WATER QUALITY COALITION

On 23 May, staff met with Westside Water Quality Coalition representatives to discuss their Source Identification Study, revisions to their Surface Water Monitoring Plan, and staff-identified parcels that need to be added to existing grower memberships.

WESTLANDS WATER QUALITY COALITION

On 22 May, staff met with Westlands Water Quality Coalition representatives for a Quarterly update meeting to discuss ongoing Groundwater Quality Trend Monitoring

efforts, recent surface water monitoring events, upcoming outreach activities, and the 2020 WY Monitoring Plan Update. The coalition proposed changing the submittal date for the quarterly surface water monitoring data reporting schedule.

On 10 June, Zaira Lopez-Narvaez attended the Westlands Water Quality Coalition's member workshop at the Fresno County Farm Bureau. The main topic of the workshop was well abandonment. Staff from the Fresno County Environmental Health Division provided a presentation on the importance of properly abandoning wells and reviewed the County's regulations and permitting process. In addition, two local well drilling companies provided presentations regarding the well abandonment process and answered questions from members wanting to learn more about the topic.

REGIONAL COLLABORATIVE GROUPS

On 10 June, the Executive Officer and ILRP staff met with representatives of the Southern San Joaquin Valley Management Practices Evaluation Program (MPEP) Group to receive updates on the MPEP Implementation.

OTHER PROJECTS

DATA MANAGEMENT

The Data Management Team continues to route water quality monitoring data through Surface Water Ambient Monitoring Program (SWAMP) for transfer to California Environmental Data Exchange Network (CEDEN) and is current with its CEDEN uploads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads the monitoring data to CEDEN. Three coalitions send data directly to the Central Valley Regional Data Center (CVRDC) for transfer to CEDEN in May each year.

In May 2019, the CVRDC uploaded the 2018 water quality monitoring data for the East San Joaquin Water Quality Coalition, San Joaquin County and Delta Water Quality Coalition, and the Westside San Joaquin River Watershed Quality Coalition to CEDEN.

As of 1 May, the Data Management Team (DMT) has submitted 100% of the Buena Vista Coalition's field, chemistry, and toxicity Electronic Data Deliverables (EDDs) to SWAMP to meet the 2020 Integrated Report's deadline. In addition, the DMT has submitted 100% of the Kaweah Basin Water Quality Coalition's and Kern River Basin Water Quality Coalition's backlog for the period 2014 – 2018 to SWAMP. SWAMP will complete the uploads to CEDEN.

GRASSLAND BYPASS PROJECT

On 25 April 2019, the Annual Monitoring Report for the Grassland Bypass Project was submitted to the Central Valley Water Board. The report covers surface water monitoring conducted from 1 January through 31 December 2019. A revised report was

submitted on 23 May in response to initial staff comments on the report. The revised report is currently under staff review.

RICE PESTICIDE PROGRAM

Thiobencarb monitoring for the 2019 sampling season commenced on 30 April. The results of monitoring will be submitted in the 2019 Annual Monitoring Report, due on 31 December, and followed by the submittal of management practice recommendations for the 2020 sampling season.

CANNABIS

GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Approximately 736 cannabis cultivators had coverage under General Order No. R5-2015-0113 (Regional General Order) when the Statewide General Order went into effect on January 1, 2018. Staff have completed, to date, 120 transfer applications to the Statewide General Order. Additionally, 386 Notice of Termination requests have been submitted, and staff have reviewed and approved 355, largely from Calaveras county which enacted a commercial cannabis cultivation ban in the spring of 2018. Table 1 provides a summary of the active enrollments to date in the Regional General Order. At the 7 June 2019 Central Valley Regional Board Meeting, the Regional General Order was rescinded with an effective date of 30 June 2019. The active Regional General Order enrollments noted in Table 1, who have yet to terminate coverage or transition to the Statewide General Order, have lost coverage as of 1 July 2019 under the Regional General Order.

TABLE 1 - TOTAL ACTIVE ENROLLMENTS WHO HAVE YET TO TERMINATE COVERAGE OR TRANSITION TO THE STATEWIDE GENERAL ORDER, HAVE LOST COVERAGE AS OF 1 JULY 2019 UNDER THE REGIONAL GENERAL ORDER:

County	Tier 1 Enrollment	Tier 2 Enrollment	Tier 3 Enrollment	Total Active Enrollments
Calaveras	83	102	28	213
Yolo	6	6	-	12
Lake	12	12	-	24
Nevada	7	-	-	7
Sierra	2	-	-	2
Plumas	1	-	-	1

County	Tier 1 Enrollment	Tier 2 Enrollment	Tier 3 Enrollment	Total Active Enrollments
Mariposa	-	-	-	-
Totals	111	120	28	259

Staff has been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach to ensure Region General Order enrollees' transition to the Statewide General Order in a timely manner. Table 2 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date.

TABLE 2 - TOTAL ACTIVE ENROLLMENTS UNDER THE STATEWIDE GENERAL ORDER:

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	2	12	2	-	1	2	-	19
Contra Costa	1	-	-	-	-	-	-	1
Fresno	4	-	-	-	-	-	-	4
Lake	9	64	2	-	49	1	-	125
Merced	4	-	-	-	-	-	-	4
Nevada	8	135	3	-	2	-	-	148
Sacramento	123	-	-	-	-	-	-	123
Shasta	9	-	-	-	-	-	-	9
Siskiyou	4	-	-	-	-	-	-	4
Sierra	-	2	-	-	-	-	-	2
Kern	1	-	-	-	-	-	-	1
Solano	2	-	-	-	-	-	-	2
Stanislaus	12	4	-	-	1	-	-	17
Tulare	2	-	-	-	-	-	-	2
Yuba	1	-	-	-	-	-	-	1
Yolo	2	18	-	-	45	-	-	65
Total	184	235	7	0	98	3	0	527

OUTREACH

On May 30th, staff presented and participated in a discussion panel at a Cannabis Cultivation Workshop hosted by the California Association of Environmental Health Administrators (CAEHA). The event focused on current regulations surrounding

cannabis cultivation, health and safety concerns for inspectors, and perspectives from the industry on current challenges. Approximately 180 attendees were present.

COMPLIANCE AND ENFORCEMENT

COMPLIANCE

On May 21st, staff performed three termination inspections in Calaveras county.

On June 5th, staff performed five permit compliance inspections in Lake county, and three permit compliance inspections in Nevada county.

On June 6th, staff performed three permit compliance inspections in Nevada county.

ENFORCEMENT

On May 21st, staff performed an enforcement inspection alongside CDFW wardens and scientists in Lake county.

On June 4th and 5th, staff performed two enforcement inspections alongside CDFW wardens and scientists in Shasta county.

On June 13th, staff performed an enforcement inspection alongside CDFW wardens and Madera County Sheriff's Deputies in Madera county.

NON-POINT SOURCE (NPS) PROGRAM

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations, as a follow-up to the 18 July 2018 Board workshop. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. On 9 January 2019, a 13267 Order was issued to the Irrigated Agriculture responsible party. On 30 May 2019, Irrigated Agriculture submitted their response to staff. Staff is in the process of reviewing the response to determine load allocation compliance. Staff will continue to send Orders to the other responsible parties throughout 2019.

Staff has experienced delays in achieving milestones, including sending and obtaining information from responsible parties, due to the Mendocino Complex fire, which affected much of Lake County. Post-fire monitoring activities and meetings have been attended by staff to stay updated on erosion control management practices and potential impacts to the lake.

On 5 June 2019, Jennifer LaBay and Meredith Howard attended the Blue Ribbon Panel for the Rehabilitation of Clear Lake Meeting. The focus of the meeting was on mercury impairments in Clear Lake and included a tour of Sulphur Bank Mine. A Blue Ribbon

Technical Subcommittee meeting is scheduled for 9 July 2019. Meeting details will be publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee website](http://resources.ca.gov/clear-lake/) (<http://resources.ca.gov/clear-lake/>).

Staff is also coordinating with agencies, organizations, and Tribes in Lake County to develop a joint brochure focused on educating residents about nutrient management and steps they can take to reduce nutrient impacts/erosion into Clear Lake. Central Valley Water Board is acting as lead in this effort. The brochure is tentatively scheduled to be available to the public in early fall 2019.

More information about the Clear Lake Nutrient Control Program can be found on the [Clear Lake Nutrient TMDL website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html): (https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html).

CYANOBACTERIA BLOOMS UPDATE

Cyanobacteria and harmful algal blooms (HABs) have become a common occurrence in water bodies across the state and the U.S. This issue has led to the question “*Are harmful algal blooms affecting our surface waters?*” In 2016, the California Water Quality Monitoring Council developed the [California Harmful Algal Blooms Portal](https://mywaterquality.ca.gov/habs/) (<https://mywaterquality.ca.gov/habs/>) on their [My Water Quality website](https://mywaterquality.ca.gov/index.html) (<https://mywaterquality.ca.gov/index.html>).

The purpose of the HABs Portal is to provide information to the public in an easy-to-understand manner on the health and environmental effects of HABs in California's lakes, reservoirs, rivers and estuarine waters. The portal includes information such as how to identify and report a bloom, healthy habits the public can practice that will protect themselves and their pets from a HAB, and a web page on control and treatment of blooms for water resource managers. The State Water Board's Surface Water Ambient Monitoring Program implements this Freshwater HAB (FHAB) Program. The Central Valley Water Board participates in the state's FHAB Program by investigating and responding to reports of suspected HABs.

CALENDAR YEAR 2019 – CENTRAL VALLEY HAB

The cyanobacteria bloom season is underway in the Central Valley. Our region is experiencing blooms in Butte, Glenn, Tehama, Contra Costa, Merced, and Madera counties. A summary of cyanobacteria blooms for the period of May to June 2019 is provided in Table 1.

TABLE 1. CYANOBACTERIA BLOOM SUMMARY: MAY – JUNE 2019

Summary of Cyanobacteria Bloom since previous EO Report	Number of Blooms
Suspected Blooms Investigated	6

Summary of Cyanobacteria Bloom since previous EO Report	Number of Blooms
Confirmed Blooms	6
Continuing Blooms from previous EO Report	3
Distinct Water Bodies with Confirmed Blooms	7
Human Illnesses Reported (under investigation)	3
Animal Impacts Reported (under investigation)	2

GRANTS

CLEAN WATER ACT §319(H) NONPOINT SOURCE GRANT SOLICITATION:

Approximately \$4 million is available for the 2019 solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. In addition, approximately \$1 million from the Timber Regulation and Forest Restoration Fund will be used to address post-fire recovery needs in areas affected by fire, as indicated in the emergency proclamations by the Governor, the 2019 Nonpoint Source Program Preferences include post-fire recovery projects.

The 2020 solicitation will be coming out later this year. For more information, please visit the [Nonpoint Source web page](https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html) (https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html).

CLEAN WATER ACT SECTION 319(H) NONPOINT SOURCE ON-GOING GRANTS:

EIGHTMILE VALLEY SEDIMENT REDUCTION AND HABITAT ENHANCEMENT PROJECT (\$749,992)

The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (Closing 4/30/2021)

IMPLEMENTATION OF BEST MANAGEMENT PRACTICES IN THE DELTA: A COMPREHENSIVE PESTICIDE MANAGEMENT PROJECT TO IMPROVE WATER QUALITY (\$399,407)

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the

generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. (Closing 8/22/2022)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN (PHASE 1) (\$300,000)

The Tehama County Resource Conservation District will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. A time extension has been approved for this grant extending the closing date by 9 months. (Closing 2/28/2020)

PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN PHASE II) (\$500,000)

The Tehama County Resource Conservation District will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. (Closing 4/30/2020)

BATTLE CREEK WATERSHED BASED PLAN (\$492,438)

The Battle Creek Watershed Conservancy has developed a Watershed-Based Plan and will implement a sediment reduction demonstration project in the Battle Creek Watershed. (Closing 6/30/2019, Final Invoice due by 7/31/2019. Grant will then be closed out)

POST-FIRE RESPONSE TO FOREST MANAGEMENT (\$329,519)

California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. (Closing 4/30/2020)

ROADSIDE FUEL REDUCTION (\$370,000)

Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. (Closing 4/30/2020)

BATTLE CREEK WATERSHED ROAD SEDIMENT REDUCTION PROGRAM PHASE 1 & 2 (\$406,350)

The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA documents. (Closing 10/31/2021)

NORTH BUTTE COUNTY ROAD INVENTORY AND IMPROVEMENT PROJECT (\$375,000)

The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. (Closing 2/28/2021)

DEER CREEK NORTH YUBA RIVER WATERSHED ASSESSMENT AND SEDIMENT REDUCTION PLAN (\$255,100)

The Tahoe National Forest will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. Due to Forest Service policy, the Tahoe National Forest has refused to accept the Grant Agreement. Therefore, this grant has been transferred to the "American Rivers Inc." organization for execution. A final draft of the grant agreement has been reviewed and an executed agreement is due soon. Eligible work start date: 03/01/2019; proposed closing date: 02/28/2022. (Not Executed)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance. The grant agreement was approved and signed on 02 May 2019. (Closing 3/30/2022)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

(An asterisk in front of an entry below denotes "Outreach to Disadvantaged Communities" or "Outreach to Tribes".)

Clint Snyder and Angela Wilson participate in the Governor's monthly Forest Management Task Force meetings and the Forest Regulations Working Group meetings. These groups were established in response to Governor Brown's executive order issued in May of 2018 directing agencies and interested parties to come together

to achieve a number of goals related to reducing wildfire risk across the state and continue to be supported by Governor Newsom. Staff prepared a streamlined assistance and permitting proposal for non-commercial forest management activities conducted by small landowners (including fuels reduction projects). The Regulations Working Group is currently reviewing the proposal and focused discussions are expected in the coming months.

From 3 May to 1 June, the Central Valley Water Board's Anthony Toto (Fresno) and John Murphy (Rancho Cordova) were deployed for a 3rd time to the Woolsey Fire Debris Removal Operations Center (DROC) in Calabasas, CA. On temporary loan to CalRecycle and CalOES, John and Anthony supervised debris removal operations in residential areas destroyed by the November 2018 Woolsey and Hill Fires of Los Angeles and Ventura Counties. Anthony served as a Division Supervisor for erosion control, final sign offs, and the Technical Task Force. Anthony completed final State-certified sign offs for over 200 properties. John served as a Branch Director for approximately 20 Task Forces in the northern section of the Woolsey Fire area. John and Anthony also trained over 15 California National Guard soldiers who were activated to take over Division Supervisor responsibilities for debris removal operations in both the Woolsey and Camp Fire areas. Anthony and John were honored to serve and support debris removal operations in the Woolsey Fire area.

*On 13 May, Zaira Lopez-Narvaez attended the Madera Integrated Regional Water Management (IRWM) group meeting held in Chowchilla to discuss routine business.

*On 11 June, Anthony Toto attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. It was announced that on 10 July Jared Blumenfeld, Secretary for Environmental Protection will visit the Fresno area for Tulare IVAN start up. There will be an EJ tour and then the initial Tulare-Identifying Violations Affecting Neighborhoods (IVAN) group meeting. On 26 June, Anthony forwarded a notice of violation and inspection report to Nayamin Martinez, Director of FERN regarding an odor complaint in Terra Bella. Anthony also gave instructions on how to use CIWQS for public reports.

*On 12 June, Anthony Toto participated in a conference call in the Kings IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. On 12 June, Anthony forwarded Appendix C of the 2018 annual report for the Avenal landfill concerning monthly observations.

On 12 June, Guy Chetelat attended the California Fish and Game Commission Carr Fire tour in Shasta County. The erosion and pollutant control grant, funded in part by the State Water Resources Control Board, was discussed.

On 14 June, Janis Cooke attended the San Francisco Bay Nutrient Management Strategy Steering Committee meeting in Richmond. The group approved the fiscal year 2020 program plan covering \$2.7 million of nutrient and algal bloom-related monitoring,

modeling, and data interpretation. The group also discussed options for maintaining ship-based monitoring, as continued federal funding of a USGS a research group and vessel presently performing the monitoring is uncertain.

On 17-21 June, Meredith Howard, Lauren Smitherman, Robert L'Heureux, Walt Plachta, Kari Holmes, and Bayley Toft-Dupuy attended the USEPA Water Quality Standards Academy held at the Cal EPA building.

On 18 June, Sue McConnell, Ashley Peters, and Susan Fregien attended a public meeting for the Grasslands Bypass Project (GBP) Long-term Stormwater Plan. The current WDRs General Order expires on 31 December 2019. Staff anticipate revisions of the Order by 31 December to address changes to the GBP.

*On 19 June, Zaira Lopez-Narvaez attended the Tuolumne-Stanislaus Integrated Water Management Authority Watershed Advisory Committee (WAC) meeting in Sonora. The meeting focused on discussing projects for the implementation grant for Proposition 1 Disadvantaged Community Involvement Funding for the Mountain Counties. Two presentations regarding potential projects were provided to the group.

On 19 June through the 21st, Denise Soria attended the Water Solutions Network in Tahoe. The Water Solutions Network advances cross-sector collaboration among leaders focused on the future of water management in California.

On 24 June, Jennifer LaBay and Kelli Garver attended training on authentic leadership, a Water Board Academy training held at the Cal EPA building.

On 24 June, Christine Joab and Jerry Bruns attended the Cyanobacteria Task Force meeting in Clear Lake. Staff received an update on winter 2019 monitoring results and other agency updates related to HABs in Clear Lake.

*On 24 June, Zaira Lopez-Narvaez attended the Madera Integrated Regional Water Management (IRWM) group meeting held in Madera. The group discussed regular business items such as the financial report, Proposition 1 Disadvantaged Community Involvement Funding for the Mountain Counties and San Joaquin Valley regions, Sustainable Groundwater Management (SGMA) and Round 1 Grant projects. Madera County staff reported that the IRWM Plan Update was approved by DWR.

*On 25 June, Walt Plachta facilitated and attended the Proposition 1 IRWM Implementation Grant Program Tulare-Kern Funding Area Pre-application workshop in the Central Valley Water Board's Fresno office conference room. Approximately 40 representatives of the IRWM groups attended and presented information on 29 individual projects to representatives of the Department of Water Resources for potential funding under Proposition 1.

On 26 June, Doug Patteson attended a meeting with the California Department of Food and Agriculture's Animal Health Branch. Doug briefly spoke about the requirements of the Bovine Feedlot General Order.

On 27 June, Sue McConnell, Susan Fregien and Rebecca Tabor attended the Sacramento Valley Water Quality Coalition's Management Advisory Committee meeting to give a brief update on current efforts within the Irrigated Lands Regulatory Program.

*On 27 June, Omar Mostafa attended a Public Outreach Community Meeting in Terra Bella, Tulare County. The purpose of the meeting was to discuss ongoing objectionable odors originating from the Setton Pistachio of Terra Bella, Inc., pistachio processing facility that had been impacting the surrounding community. Omar Mostafa presented an overview of actions taken by Central Valley Water Board staff in response to the odors and answered questions from the public in attendance.

On 1 July, Clay Rodgers, Sue McConnell, Doug Patteson, and Susan Fregien participated in a compost application discussion with CDFA Undersecretary Jenny Lester Moffitt and State Water Board member DeeDee D'Adamo, along with CDFA and State Water Board staff.

*On 2 July, Anthony Toto participated in a conference call with the Kern Environmental Enforcement Network (KEEN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. The California Department of Toxic Substances Control (DTSC) is finalizing a strategic plan, which will guide DTSC's work to serve the public over the next four years; a presentation was made and discussed at the meeting. Anthony passed along the presentation and information to State Board Office of Public Participation.

GENERAL UPDATES TO THE BOARD

CONSTITUENTS OF EMERGING CONCERN (CECS)

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (representing publicly-owned treatment works or POTWs) and Central Valley Municipal Separate Storm Sewer System agencies (MS4) to develop a work plan in response to State Water Board's *Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan*. The POTW/MS4 group have developed the *Central Valley Pilot Study for Monitoring Constituents of Emerging Concern (CECs) Work Plan* (Work Plan) based on feedback from the State Water Board and Central Valley Water Board staff.

Staff worked with the POTW/MS4 group to secure funding from the Delta Regional Monitoring Program (DRMP) Steering Committee to develop a Quality Assurance Project Plan (QAPP) and fund program implementation costs (e.g. – planning, contracting, start-up mobilization, etc.). The Aquatic Science Center (ASC) has provided the DRMP Technical Advisory Committee with a draft QAPP and Sampling and Analysis Plan for discussion at their 9 May 2019 meeting. Edits to the draft QAPP and Sampling and Analysis Plan may be made based on comments received during the discussion and prior to submittal to the Surface Water Ambient Monitoring Program for approval.

The DRMP allocated \$35,000 to fund sampling planned for Year 1 of the Work Plan; additional funding for Year 1 activities will be discussed by the DRMP Steering Committee since funding was not granted from the Proposition 1 Delta Science Proposal Solicitation. Expanded analyses of the Work Plan are proposed to be funded through the establishment of a Supplemental Environmental Project. Ambient CEC sampling is planned to begin in FY 19/20 after a QAPP and Sampling and Analysis Plan is approved.

E&J GALLO WINERY, FRESNO COUNTY

On 6 June 2019, E&J Gallo Winery submitted a response to Regional Board staff's review letter of its *Composting Operations Characterization Report* and discussions at our 7 May 2019 meeting. Regional Board staff is currently reviewing Gallo's submittal and will provide a written response in the coming weeks.

TIMBER

On 31 May 2019, Forest Activities Program staff received the final first version of the Watershed Based Plan (WBP) for Battle Creek from the Battle Creek Watershed Conservancy. The plan will be released to the Greater Battle Creek Working Group responsible for the ongoing project to restore approximately 42 miles of stream habitat for native salmonids. FY 19/20 will see the WBP available on the interactive, user-friendly online Sacramento River Watershed portal.

Federal Nonpoint Source Permit – Central Valley Water Board staff are working with Lahontan Regional Water Board staff to refine the framework for the federal nonpoint source permit. Current efforts are focused on establishing a framework with methods, mechanisms and targets that will meet the needs of both regions and mapping out the process deliverables for at least the next two years.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES

MAY 1, 2019 – JUNE 28, 2019

PROMOTIONS:

None

LEAVE OF ABSENCE:

Rebecca Asami, EG
Bethany Soto, ES
Marilyn Petruescu, EG

RETIREMENT:

Steve Thompson – AGPA
Patrick Morris – Senior WRCE

SUMMARY OF POSITIONS:

Authorized Positions: 261.7

Vacant Positions: 10.2

Separations: Ayda Soltani, WRCE (Permanent Employee)
Shirley Garcia, AGPA (Permanent Employee)
Gurjot Chahal, WRCE (Permanent Employee)
Troy Weber, ES (Permanent Employee)
Lillian Zahir – Seasonal Clerk (Temporary Help Position)
Delaney Broome – Scientific Aid (Temporary Help Position)
Stephanie Jamis – Scientific Aid (Temporary Help Position)
Ruben Mullins – Scientific Aid (Temporary Help Position)
Michael Whalen – Scientific Aid (Temporary Help Position)
Will Ragan – Scientific Aid (Temporary Help Position)

New Hires: Nicholas Handcock, OT (Permanent Employee)
Aaron Rachels, EG (Permanent Employee)
Carlos Cervantes, EG (Permanent Employee)
Lynne Baumgras, EG (Permanent Employee)
Maxine Cottrell, WRCE (Permanent Employee)
Greg Issinghoff, EG (Permanent Employee)
Ashley Hernandez – Scientific Aid (Temporary Help Position)
Danielle Putnam -- Scientific Aid (Temporary Help Position)

TRAINING UPDATES
MAY 1, 2019 – JUNE 28, 2019

Class Title	Number of Attendees
AED/CPR: American Heart Association Heartsaver AED Training	21
American Heart Association First Aid Training	10
Authentic Leadership	5
Basic Forest Practice	2
Basic Supervision for Supervisors - Part I	1
Basic Supervision for Supervisors - Part II	1
Best Practices for Multilingual Writers & Readers	3
Building High Performance Teams	1
CASQA Quarterly Meeting/Webcast	6
CEQA Update	5
Chemical Labeling	4
CHP Active Shooter Response Training	2
Civil Engineering PE Exam Review Course	1
Collaborative Conversations & Managing Conflicts	1
CVCWA Annual Conference	13
Defensive Driver Training	2
DGS, SB/DVBE Program Abuse Cases and Complaint Training	2
Division of Mine Reclamation - Surface Mining Inspections	1
Document Accessibility Overview Training	28
Editing	13
EEO: Workplace Rights and Responsibilities	24

Class Title	Number of Attendees
Effective Decision Making	1
Effective Oral Presentations of Technical Information	18
Field Safety Training	7
Fluvial Geomorphology	8
Fourth Annual CA Water Boards Science Symposium	1
GEO345 Remote Sensing and Imagery Analysis	1
Implementing Strengths-Based Leadership	1
Introduction to ArcGIS	18
Maintaining a Respectful Work Environment	2
Meeting Facilitation Skills for Water Board Staff - Level 3	2
Meeting Facilitation Skills for Waterboards Staff - Level 1-2	7
Mine Inspection Training Workshop	4
Off-Road Driving Techniques and Recovery Procedures	32
Personal Leadership	2
PFAS Information Presentation	1
Pretreatment Training for Regulators	23
Project Management	2
Risk and Decision-Making Workshop	3
SCI320 Geosciences Methodologies	1
Security Awareness Training	1
Surveying Review	1
Sustainable Groundwater Management and Conflict Resolution	1
Understanding Freshwater Invertebrates & the Health of Streams & Rivers in CA	1
Verbal Judo	12
Water Quality Standards	6
AED/CPR: American Heart Association Heartsaver AED Training	21

FISCAL UPDATE

A fiscal update cannot be provided at this time due to the Water Board's implementation of the Fi\$Cal accounting system. This information will be provided once budget reports become available.

CONTRACTS

OPERATIONAL SUPPORT SERVICES

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
17-084-150, Am. 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services, Redding Office	05/24/2018	09/30/2020	\$60,000
19-046-160	TBD	Fixed wing aircraft - Aerial surveillance services	5/1/2020	4/30/2023	\$60,000

WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
16-046-150, Am. 1	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	TBD	02/12/2020	\$375,000
16-074-150, Am. 3	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	03/31/2019	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000
17-066-150	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	11/29/2018	01/31/2021	\$100,000
18-053-150	Caltest Analytical Laboratory	Lab services (Rancho Cordova office)	08/15/2018	06/30/2021	\$240,000
18-054-150	Basic Laboratory, Inc.	Lab services (Redding office)	08/15/2018	06/30/2021	\$165,000
18-055-150	Moore Twining Assoc., Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	03/31/2020	\$199,987

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem response under current and future scenarios.	07/01/2018	03/31/2020	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$110,000
18-084-150	Southern California Coastal Water Research Project Authority	To organize and facilitate a Surface Water Expert Panel to evaluate the adequacy of the surface water monitoring and assessment framework in the Eastern San Joaquin (ESJ) River Watershed General Waste Discharge Requirements	4/17/2019	01/30/2021	\$249,806
19-002-270	Merced County Department of Public Health	To revise and/or modify existing online proprietary reporting tools for preparing annual reports and waste management plans developed for dairy operations to be used by bovine operations.	TBD	03/31/2022	\$300,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
19-003-150	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	TBD	03/31/2022	\$510,000
19-004-150	TBD	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	TBD	03/31/2022	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	TBD	3/31/2022	\$525,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$110,000

FUTURE BOARD ACTIVITIES

OCTOBER 2019 BOARD MEETING

NPDES PROGRAM– PERMITTING

- Town of Discovery Bay WWTP Renewal
- City of Stockton RWCF Renewal
- Wheelabrator Shasta Energy Renewal
- Anderson WPCP Renewal
- Yosemite National Park, El Portal WWTF Renewal
- Linda County Amendment

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Biggs WWTF (New WDRs)
- Gunner Ranch WWTF (New WDRs)
- Sacramento Rendering (Revised WDRs)
- Tomatek Tomato Processing (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- GBF/Pittsburg (Revised WDRs)
- Geer Landfill (Revised WDRs)
- Chester Landfill (Revised WDRs)
- Avenal Landfill (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- Upper-watershed Information Item

December 2019 Board Meeting

NPDES PROGRAM – PERMITS

- Bear Valley Water District WWTF Amendment
- City of Turlock Regional WQCF Amendment
- Cold Water CAAP General Order Renewal
- Alturas WWTP Renewal
- Woodland WWTP Renewal
- Municipal General Order Amendment
- Olivehurst PUD Amendment

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Butte College WWTF (Revised WDRs)
- Olson Meats (Revised WDRs)
- Tasteful Selections (New WDRs)
- Horizon Nut (Revised WDRs)
- UC Davis Aquatic Weed (Revised WDRs)
- Malaga County Water District WWTF (New WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Forward Landfill (Revised WDRs)
- Fink Road Landfill (Revised WDRs)
- Recology Hay Road (Revised WDRs)
- Orosi Solid Waste Disposal Site (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- ESJ Surface Water Monitoring Framework External Review Information Item

FEBRUARY 2020 BOARD MEETING

- NPDES Program – Permitting
- Merced WWTF Renewal
- Sierra Pacific Industries Burney Division Sawmill Renewal

LAND DISPOSAL PROGRAM– CHAPTER 15/TITLE 27

- Small Food Processor Waiver Revision
- Setton Pistachios/Porterville Citrus (Revised WDRs)
- Cannon and Scallon Properties (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- ILRP Enrollment Status Information Item

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Barrel 10 Winery (Revised WDRs)
- Butte College WWTF (Revised WDRs)
- City of Corcoran WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Kettleman WWTF (Revised WDRs)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)

- City of Madera WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- Mule Creek State Prison (Amended WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)
- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Greenville WWTF (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Olson Meats (Revised WDRs)
- Redding Regional Septage (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Tejon Mountain Village (New WDRs)
- Wonderful Pistachios (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Duel Surface Impoundment (Revised WDRs)
- Aquaclear Drillin Mud Site (Revised WDRs)
- Looms Landfill (Revised WDRs)

- SMS Briners (Revised WDRs)
- Ponderosa Landfill (Revised WDRs)
- Los Banos Landfill (Revised WDRs)
- Neal Road Landfill (Revised WDRs)

NPDES PROGRAM – PERMITTING

- Malaga WWTF Rescission
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Sixteen to One Mine Renewal
- Mariposa Public Utility District WWTF Renewal
- City of Turlock Regional WQCF Renewal
- City of Galt WWTP & Reclamation Renewal
- City of Manteca WQCF Renewal
- City of Rio Vista Northwest WWTF Renewal
- Sac City Combined WW Collection/TRT System Renewal
- Collins Pine Chester Sawmill Renewal

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit
- Clearlake Nutrient TMDL TSO – Phase II MS4

SIGNIFICANT CENTRAL VALLEY WATER BOARD PLANS, PERMITS & POLICIES UNDER DEVELOPMENT

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT

The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017, approved by the State Water Board on 10 July 2018, and approved by OAL on 19 February 2019. The non-TMDL elements of the Amendment are now fully approved and effective. USEPA approved the TMDLs in the Amendment on 23 April 2019.

MERCURY IMPLEMENTATION PLAN FOR RESERVOIRS

Staff from the San Francisco Bay Water Board, the Central Valley Water Board, and the State Water Board's Division of Water Quality are developing a program to address fish mercury impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis and regulatory provisions for a statewide TMDL and implementation plan. The scientific peer review is complete. Project sponsors are discussing options for regulatory approach.

CV-SALTS BASIN PLAN AMENDMENTS

Salt and Nitrate Management Plan posted a www.cvsalinity.org at the end of 2016 and formally submitted to the Central Valley Water Board on 12 January 2017. Board accepted receipt of SNMP on 9 March 2017 and directed staff to begin Basin Plan Amendment. Central Valley Water Board adopted a Central Valley-wide Salt and Nitrate Control Program on 31 May 2018. Supporting policies included a revised Variance and Exceptions Policy; Drought and Conservation Policy; Offsets Policy; and clarification on the use of Secondary MCLs to protect the Municipal and Domestic Supply (MUN) use. Staff preparing to bring amendments to the State Board, OAL and USEPA for approval.

REVISION OF GENERAL ORDER FOR EXISTING DAIRIES

Revision of Revised General Order R5-2013-0122 to include requirements for composting consistent with the statewide composting General Order WQ 2015-0121-DWQ, requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements, and to include updated requirements adopted in the Bovine General Order R5-2017-0058. Staff is drafting revisions for Board considerations at future meeting.

WATER QUALITY OBJECTIVES FOR AMMONIA

Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May. Toxicity testing in progress to provide information for criteria development.

USFS MOU FOR BAER ACTIVITIES

Staff has engaged the USFS in drafting an MOU that will outline the process by which the Regional Boards may choose to participate in USFS Burned Area Emergency

The BPA was adopted on 11 August 2017. At the State Water Board approval hearing on 10 July 2018, the decision was made to bring the item back to the Board for consideration at a future date. A follow-up adoption hearing has not been scheduled. Amendments would also need approval by OAL and as appropriate, USEPA.

DEVELOPMENT OF PERMIT FOR FEDERAL NON-POINT SOURCE (NPS) ACTIVITIES ON FOREST LANDS

The Central Valley Water Board is working with the Lahontan Water Board to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The Central Valley Water Board's MS4 permit is being used as a model. 6 initial public outreach meetings were held from October through early December 2017. [Project information can be found here:](http://www.waterboards.ca.gov/central_valley_water_board/projects/central_valley_water_board_ms4_permit/central_valley_water_board_ms4_permit.htm)
(http://www.waterboards.ca.gov/central_valley_water_board/projects/central_valley_water_board_ms4_permit/central_valley_water_board_ms4_permit.htm)

ATTACHMENT A

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills – 16 April 2019 and 30 June 2019

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	75	47.5%
Debris-General	32	20.3%
Grease Deposition (FOG)	10	6.3%
Other (specify below)	8	5.1%
Debris-Rags	6	3.8%
Debris-Wipes/Non-Dispersables	6	3.8%
Operator Error	5	3.2%
Pipe Structural Problem/Failure	3	1.9%
CS Maintenance Caused Spill/Damage	2	1.3%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	2	1.3%
Debris from Construction	2	1.3%
Debris from Lateral	2	1.3%
Vandalism	2	1.3%
Damage by others not related to CS Const/Maint.	1	0.6%
Pump Station Failure-Controls	1	0.6%
Rainfall Exceeded Design, I and I (Separate CS Only)	1	0.6%
Total	158	100%

- Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:
- Reach surface water and/or reach a drainage channel tributary to a surface water; or
 - Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
- Category 2:** Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee's sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly
- Category 3:** All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition

ATTACHMENT A

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 16 April 2019 and 30 June 2019

Office	Category 1	Category 2	Category 3	Total
5F	2	1	11	14
5R	1	1	2	4
5S	14	6	120	140
Total	17	8	133	158

Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 16 April 2019 and 30 June 2019

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Lodi City	White Slough Water Poll Con Pu CS	859157	Category 2	White Slough Pollution Control Facility - City of Lodi	San Joaquin	No	46,758	0	6/7/19	Other (specify below)
5S	Stockton City MUD	City of Stockton MUD CS	858383	Category 1	721 E. Hammer Lane	San Joaquin	Yes	13,397	13,397	5/19/19	Rainfall Exceeded Design, I and I (Separate CS Only)
5R	Shasta Lake City	Shasta Lake CS	859312	Category 2	Shasta Lake	Shasta	No	5,000	0	6/11/19	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	El Dorado Irrigation District	El Dorado Hills CS	859087	Category 1	6/3/2019	El Dorado	Yes	3,410	3,410	6/14/19	Root Intrusion
5S	Calaveras Cnty Water District	Arnold CS	858484	Category 2	Lift station #2 2617 Pine Dr, Arnold CA 95223	Calaveras	No	2,500	0	5/23/19	Pump Station Failure-Controls

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858747	Category 2	244587	Sacramento	No	2,076	0	6/2/19	Grease Deposition (FOG)
5F	Malaga CWD	Malaga CWD CS	858644	Category 2	2773 E. Malaga Ave.	Fresno	No	2,000	0	5/30/19	Debris-Rags
5S	Lakeport City	City Of Lakeport CS	857731	Category 1	1625 N. High St	Lake	Yes	1,908	1,908	4/18/19	Debris-Rags
5S	CSU Sacramento	California State University, Sacramento CS	858245	Category 2	Sutter Hall/Dining Commons	Sacramento	No	1,800	0	5/7/19	Grease Deposition (FOG)
5S	Modesto City	Modesto CS	858755	Category 2	1320 MC Henery Ave Modesto	Stanislaus	No	1,650	0	4/25/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858494	Category 2	243749	Sacramento	No	1,111	0	5/22/19	Debris-General
5S	Town of Discovery Bay CSD	Discovery Bay CS	858930	Category 1	Utility easement along Highway 4 Discovery Bay	Contra Costa	Yes	975	50	6/12/19	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5F	Taft City	Taft City CS	857872	Category 3	Graydon Ave C10-6 to C10-7	Kern	No	897	0	4/23/19	Debris-Rags

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	Fresno County	Fresno Co 41-Shaver Lake CS	857714	Category 1	Waterworks 41	Fresno	Yes	750	75	4/18/19	Other (specify below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858624	Category 3	241708	Sacramento	No	749	0	4/29/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858595	Category 3	241098	Sacramento	No	711	0	4/21/19	Grease deposition (FOG)
5F	Madera County Public Works Department - Special Districts	SA-2 Bass Lake CS	858836	Category 1	Lift Station 13	Madera	Yes	500	400	6/7/19	Operator Error
5R	Chico City	Chico CS	857818	Category 1	End of Shearwater Ct	Butte	Yes	500	400	4/22/19	Debris-Wipes/Non-Dispersables
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858867	Category 1	245333	Sacramento	Yes	494	261	6/8/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859454	Category 3	241933	Sacramento	No	465	0	5/1/19	Debris-General
5F	Madera County Public Works Department - Special Districts	SA-2 Bass Lake CS	858707	Category 3	SA2S Manhole # 123	Madera	No	450	0	5/31/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858465	Category 1	243483	Sacramento	Yes	430	290	5/18/19	Root Intrusion

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Modesto City	Modesto CS	858719	Category 3	2005 Silvaire Dr	Stanislaus	No	410	0	5/7/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858403	Category 1	243447	Sacramento	Yes	400	397	5/19/19	Root Intrusion
5F	Fresno County	City of Fresno CS	858538	Category 3	700 P St	Fresno	No	367	0	4/24/19	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858579	Category 3	241324	Sacramento	No	308	0	4/23/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858022	Category 1	241683	Sacramento	Yes	271	245	4/27/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858598	Category 3	241816	Sacramento	No	271	0	4/29/19	Root intrusion
5S	Lodi City	White Slough Water Poll Con Pu CS	859465	Category 3	608 W Lodi Ave. Lodi CA	San Joaquin	No	254	0	5/14/19	Debris-General
5S	El Dorado Irrigation District	El Dorado Hills CS	858642	Category 1	EDH-2019-05-02	El Dorado	Yes	250	250	5/30/19	Debris from Construction
5S	El Dorado Irrigation District	Deer Creek CS	858019	Category 3	DC-2019-04-01	El Dorado	No	235	0	4/30/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859450	Category 3	242539	Sacramento	No	196	0	5/9/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859444	Category 3	242326	Sacramento	No	181	0	5/6/19	Debris-General

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858092	Category 1	241921	Sacramento	Yes	164	139	4/30/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858613	Category 3	241996	Sacramento	No	153	0	4/30/19	Root intrusion
5S	Sutter Creek City	Sutter Creek CS	858271	Category 1	Cleanout next to Sutter Creek behind 73 Badger Road	Amador	Yes	150	150	5/13/19	Debris-Rags
5F	Fresno County	City of Fresno CS	859350	Category 3	468 N Glenn	Fresno	No	148	0	5/7/19	Pipe Structural Problem/Failure
5S	Antioch City	City of Antioch CS	858877	Category 3	4509 Elk Dr Antioch Ca	Contra Costa	No	147	0	6/9/19	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859449	Category 3	242374	Sacramento	No	144	0	5/7/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859427	Category 3	242592	Sacramento	No	140	0	5/10/19	Grease deposition (FOG)
5S	Oakdale City	Oakdale CS	859077	Category 1	Hollenbeck and Boyd	Stanislaus	Yes	133	98	6/15/19	Other (specify below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859460	Category 3	242571	Sacramento	No	94	0	5/9/19	Debris-General

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Stockton City MUD	City of Stockton MUD CS	858765	Category 3	6248 Pacific ave Stockton Ca	San Joaquin	No	91	0	5/23/19	Pipe Structural Problem/Failure
5S	Antioch City	City Of Antioch CS	857749	Category 3	12 W Madill St Antioch CA	Contra Costa	No	86	0	4/16/19	Debris-Rags
5S	Vacaville City DPW	Easterly CS	858514	Category 3	200 Prairie ct.	Solano	No	86	0	5/24/19	Other (specify below)
5S	Antioch City	City Of Antioch CS	857932	Category 3	2604 Cathy Way Antioch CA	Contra Costa	No	80	0	4/25/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859423	Category 3	244461	Sacramento	No	76	0	5/31/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859433	Category 3	242500	Sacramento	No	76	0	5/5/19	Root intrusion
5S	Stockton City MUD	City of Stockton MUD CS	857821	Category 3	824 E Longview Stockton Ca	San Joaquin	No	70	0	4/21/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859428	Category 3	243518	Sacramento	No	60	0	5/20/19	Damage by others not related to CS Const/Maint.
5S	Woodland City	City of Woodland CS	859253	Category 3	2717 Liberty Dr	Yolo	No	58	0	5/8/19	Debris-General
5S	Oakdale City	Oakdale CS	858714	Category 1	Hollenbeck Court	Stanislaus	Yes	53	35	6/2/19	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859439	Category 3	242566	Sacramento	No	52	0	5/8/19	Debris-General

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REGION	AGENCY	Collection System	Spill Even ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	US Dept of the Interior Park Service	Yosemite Valley CS	858301	Category 3	Housekeeping Camp C restroom	Mariposa	No	50	0	4/30/19	Debris-Wipes/Non-Dispersables
5S	Lathrop City	Lathrop CS to Manteca WQCF CS	859390	Category 3	662 O Street	San Joaquin	No	50	0	6/19/19	Debris-General
5S	Modesto City	Modesto CS	858718	Category 3	2012 Durango Ln	Stanislaus	No	50	0	5/23/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	858070	Category 3	545 S Stanislaus St	San Joaquin	No	48	0	4/29/19	Root Intrusion
5S	South Placer MUD	South Placer Mud CS	858830	Category 3	4150 Pine St, Rocklin, CA	Placer	No	44	0	5/13/19	Root Intrusion
5F	Kern County Public Works Department	Reeder Tract WWf, Csa #398 CS	859192	Category 3	Reeder Tract Chain Ave	Kern	No	43	0	5/22/19	Debris-Wipes/Non-Dispersables
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859424	Category 3	242693	Sacramento	No	42	0	5/12/19	Root intrusion
5S	South Placer MUD	South Placer Mud CS	858827	Category 3	2951 Cricket Club Ct. Rocklin, Ca	Placer	No	34	0	5/12/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	858773	Category 3	1607 School Ave Stockton Ca	San Joaquin	No	34	0	5/27/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859418	Category 3	244261	Sacramento	No	32	0	5/29/19	Root intrusion

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5S	Stockton City MUD	City of Stockton MUD CS	858736	Category 3	1141 Sutherland ave Stockton Ca	San Joaquin	No	32	0	5/14/19	Root Intrusion
5F	USDI National Park Service Sequoia & Kings Canyon	Cedar Grove CS	858236	Category 3	Cedar Grove Concrete Vault Air Relief #3	Fresno	No	30	0	4/23/19	Other (specify below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858071	Category 1	241813	Sacramento	Yes	30	23	4/29/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859432	Category 3	243954	Sacramento	No	30	0	5/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858610	Category 3	240894	Sacramento	No	29	0	4/16/19	Vandalism
5F	Taft City	Taft City CS	857868	Category 3	Washinton Ave and F st C11-21 to C11-12	Kern	No	25	0	4/22/19	Root Intrusion
5S	Davis City	Davis CS	858405	Category 3	910 L St.	Yolo	No	25	0	5/20/19	Other (specify below)
5S	Roseville City	Dry Creek CS	858670	Category 3	146 Elm St.	Placer	No	22	0	5/20/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858600	Category 3	240868	Sacramento	No	22	0	4/17/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858615	Category 3	240892	Sacramento	No	22	0	4/17/19	Debris-General

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5F	US Dept of the Interior Park Service	Yosemite Valley CS	858875	Category 3	Yosemite Valley RV Station	Mariposa	No	20	0	5/13/19	Other (specify below)
5F	US Dept of the Interior Park Service	Yosemite Valley CS	858876	Category 3	Yosemite Valley RV Station	Mariposa	No	20	0	5/11/19	Other (specify below)
5S	Roseville City	Dry Creek CS	859382	Category 3	1121 Champion Oaks	Placer	No	20	0	5/12/19	Root Intrusion
5S	Lodi City	White Slough Water Poll Con Pu CS	858660	Category 3	608 West Lodi Avenue	San Joaquin	No	19	0	4/19/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858617	Category 3	241548	Sacramento	No	18	0	4/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859415	Category 3	242695	Sacramento	No	18	0	5/12/19	Root intrusion
5S	Stockton City MUD	City of Stockton MUD CS	858826	Category 3	837 Pio Pica Ave Stockton Ca	San Joaquin	No	18	0	5/31/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858616	Category 3	241381	Sacramento	No	17	0	4/24/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	858178	Category 3	4658 Greensboro Ct Stockton	San Joaquin	No	17	0	5/6/19	Debris-General

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859431	Category 3	243826	Sacramento	No	16	0	5/23/19	Root intrusion
5F	Bakersfield City	City Of Bakersfield CS	858100	Category 3	Savory Lane and South Half Moon Drive	Kern	No	15	0	4/30/19	Grease Deposition (FOG)
5R	Quincy Community Services District	Quincy CS	857947	Category 3	159 Railway Ave., Quincy, Calif., 95971	Plumas	No	15	0	4/23/19	Debris from Lateral
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	858752	Category 3	101 Simmons Way	Sacramento	No	15	0	6/4/19	Pipe Structural Problem/Failure
5S	Lakeport City	City Of Lakeport CS	859135	Category 3	266 Grace Lane	Lake	No	15	0	6/17/19	Debris from Lateral
5S	Roseville City	Dry Creek CS	858150	Category 3	801 Vernon St.	Placer	No	15	0	4/19/19	Debris from Construction
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859438	Category 3	242210	Sacramento	No	14	0	5/5/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858612	Category 3	241309	Sacramento	No	13	0	4/23/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858586	Category 3	241673	Sacramento	No	12	0	4/27/19	Root intrusion
5S	Vacaville City DPW	Easterly CS	858174	Category 3	433 s. Orchard	Solano	No	12	0	5/7/19	Root Intrusion

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5S	Roseville City	Dry Creek CS	858673	Category 3	130 Donner	Placer	No	11	0	5/24/19	Root Intrusion
5S	Davis City	Davis CS	858692	Category 3	217 E street Davis Ca	Yolo	No	10	0	6/2/19	CS Maintenance Caused Spill/Damage
5S	Davis City	Davis CS	858693	Category 3	2612 Lafayette Drive	Yolo	No	10	0	6/2/19	CS Maintenance Caused Spill/Damage
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859445	Category 3	242697	Sacramento	No	10	0	5/12/19	Debris-General
5S	Antioch City	City Of Antioch CS	858789	Category 3	2828 Bonita Ave Antioch CA	Contra Costa	No	9	0	6/4/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858601	Category 3	241026	Sacramento	No	8	0	4/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858619	Category 3	241353	Sacramento	No	8	0	4/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859420	Category 3	241952	Sacramento	No	8	0	5/1/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859437	Category 3	242208	Sacramento	No	8	0	5/5/19	Debris-General
5S	Antioch City	City Of Antioch CS	857745	Category 3	42 Service Rd Antioch CA	Contra Costa	No	7	0	4/18/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858587	Category 3	241803	Sacramento	No	7	0	4/29/19	Debris-General

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859425	Category 3	243511	Sacramento	No	7	0	5/20/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859429	Category 3	242212	Sacramento	No	7	0	5/5/19	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859435	Category 3	244083	Sacramento	No	7	0	5/28/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859436	Category 3	244126	Sacramento	No	7	0	5/28/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859447	Category 3	242843	Sacramento	No	7	0	5/12/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859453	Category 3	243455	Sacramento	No	7	0	5/19/19	Debris-General
5R	Oroville City	Oroville CS	858526	Category 3	651 Safford St.	Butte	No	6	0	5/21/19	Debris-Wipes/Non-Dispersables
5S	Roseville City	Dry Creek CS	858533	Category 3	2551 La Croix Dr.	Placer	No	6	0	5/2/19	Debris-Wipes/Non-Dispersables
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858597	Category 3	241550	Sacramento	No	6	0	4/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859417	Category 3	243444	Sacramento	No	6	0	5/18/19	Root intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859458	Category 3	243115	Sacramento	No	6	0	5/16/19	Root intrusion
5S	Antioch City	City Of Antioch CS	857934	Category 3	413 Lynn Ave Antioch CA	Contra Costa	No	5	0	4/25/19	Root Intrusion
5S	Roseville City	Dry Creek CS	858177	Category 3	276 Spyglass Hill Roseville Ca.	Placer	No	5	0	5/4/19	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858581	Category 3	241013	Sacramento	No	5	0	4/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858596	Category 3	241283	Sacramento	No	5	0	4/23/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859414	Category 3	242595	Sacramento	No	5	0	5/9/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859434	Category 3	242561	Sacramento	No	5	0	5/9/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859461	Category 3	242703	Sacramento	No	5	0	5/12/19	Root intrusion
5S	Roseville City	Dry Creek CS	858540	Category 3	801 Vernon St	Placer	No	4	0	5/14/19	Debris-Wipes/Non-Dispersables
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858570	Category 3	241122	Sacramento	No	4	0	4/22/19	Root intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858605	Category 3	241037	Sacramento	No	4	0	4/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858611	Category 3	241042	Sacramento	No	4	0	4/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858618	Category 3	241552	Sacramento	No	4	0	4/24/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859413	Category 3	242359	Sacramento	No	4	0	5/7/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859416	Category 3	244138	Sacramento	No	4	0	5/28/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859419	Category 3	244538	Sacramento	No	4	0	5/31/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859442	Category 3	243296	Sacramento	No	4	0	5/17/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859446	Category 3	242698	Sacramento	No	4	0	5/12/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859451	Category 3	243896	Sacramento	No	4	0	5/23/19	Root intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859455	Category 3	241989	Sacramento	No	4	0	5/1/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859459	Category 3	244012	Sacramento	No	4	0	5/24/19	Root intrusion
5S	Sacramento City	City of Sacramento Utilities CS	858848	Category 3	7415 Braeridge Way, Sacramento CA 95831	Sacramento	No	4	0	5/24/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	858750	Category 3	105 Whitburn Ct Stockton Ca	San Joaquin	No	4	0	5/31/19	Root Intrusion
5S	Antioch City	City Of Antioch CS	858668	Category 3	106 W 20th St Antioch CA	Contra Costa	No	3	0	5/30/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858572	Category 3	240933	Sacramento	No	3	0	4/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858584	Category 3	241207	Sacramento	No	3	0	4/22/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859421	Category 3	242279	Sacramento	No	3	0	5/6/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859422	Category 3	243449	Sacramento	No	3	0	5/18/19	Root intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859430	Category 3	243678	Sacramento	No	3	0	5/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859440	Category 3	243808	Sacramento	No	3	0	5/22/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859443	Category 3	244161	Sacramento	No	3	0	5/29/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859448	Category 3	243959	Sacramento	No	3	0	5/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859452	Category 3	242300	Sacramento	No	3	0	5/6/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858585	Category 3	241655	Sacramento	No	2	0	4/26/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858602	Category 3	241515	Sacramento	No	2	0	4/25/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858606	Category 3	241062	Sacramento	No	2	0	4/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859441	Category 3	244456	Sacramento	No	2	0	5/31/19	Debris-General

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858574	Category 3	241092	Sacramento	No	1	0	4/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858582	Category 3	241067	Sacramento	No	1	0	4/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858607	Category 3	241737	Sacramento	No	1	0	4/29/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858609	Category 3	240799	Sacramento	No	1	0	4/17/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	858620	Category 3	241895	Sacramento	No	1	0	4/30/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859426	Category 3	243927	Sacramento	No	1	0	5/23/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859456	Category 3	242318	Sacramento	No	1	0	5/7/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	859457	Category 3	243006	Sacramento	No	1	0	5/15/19	Operator error